

P-447

NASA Technical Memorandum 86426, Part 2

1983 DIRECT STRIKE LIGHTNING DATA

(NASA-TM-86426-Pt-2) THE 1983 DIRECT STRIKE
LIGHTNING DATA, PART 2 (NASA) 447 p

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CONTENTS

Part 1*

SUMMARY	1
SYMBOLS	2
INTRODUCTION	3
DATA SYSTEMS	3
1983 LIGHTNING DATA	4
CONCLUSION	7
REFERENCES	8
TABLES	9
FIGURES	15

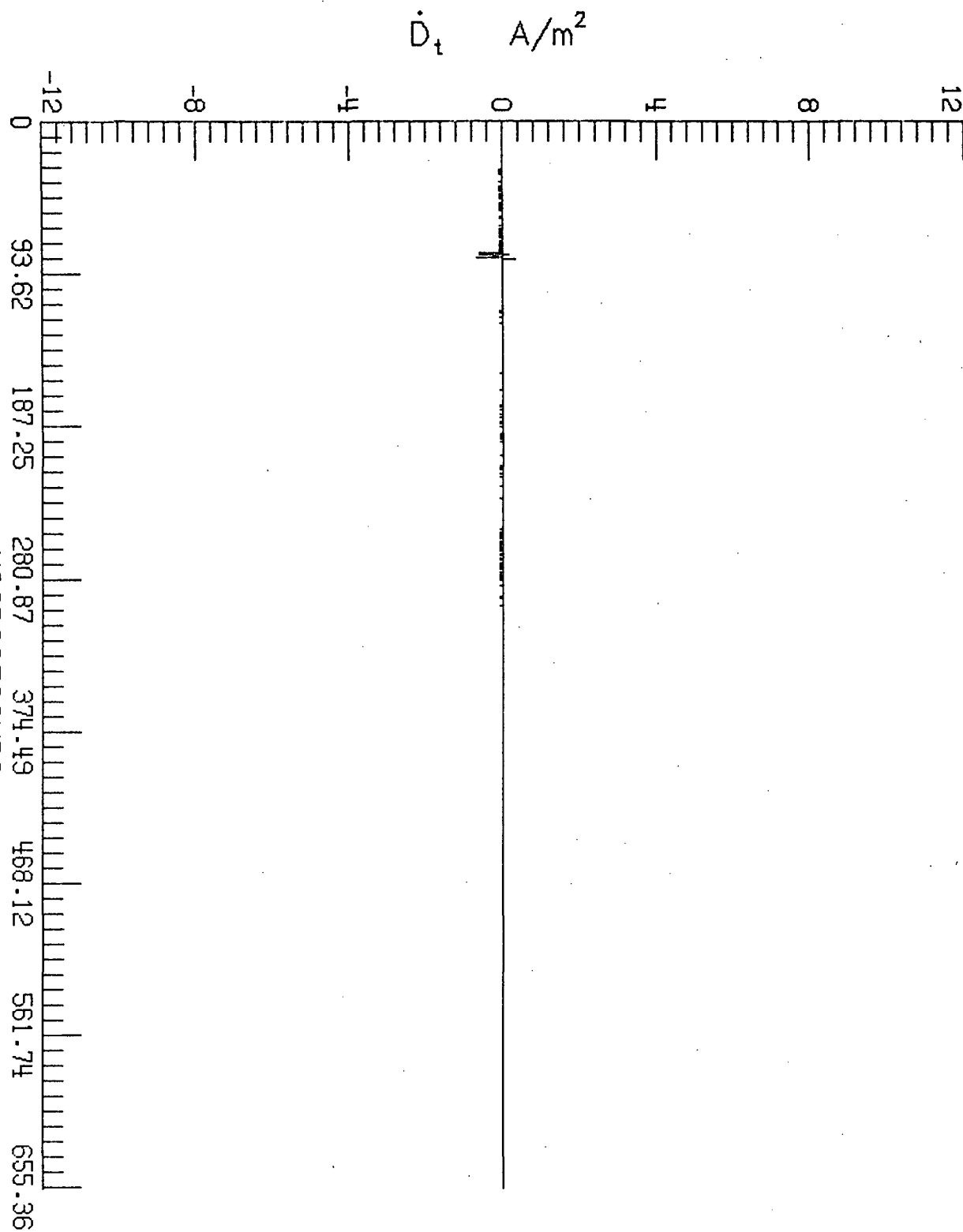
Part 2

FIGURES	437
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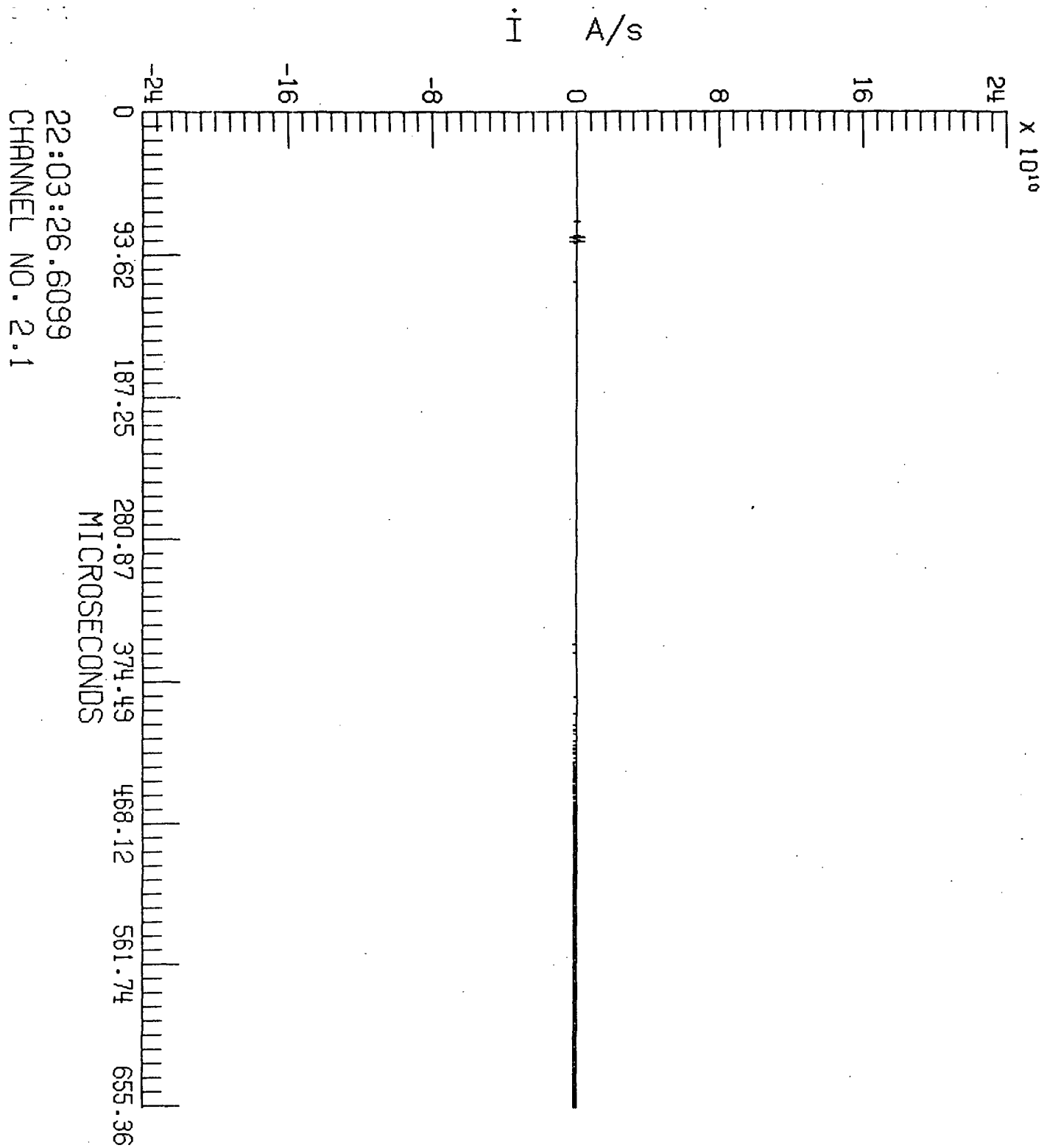
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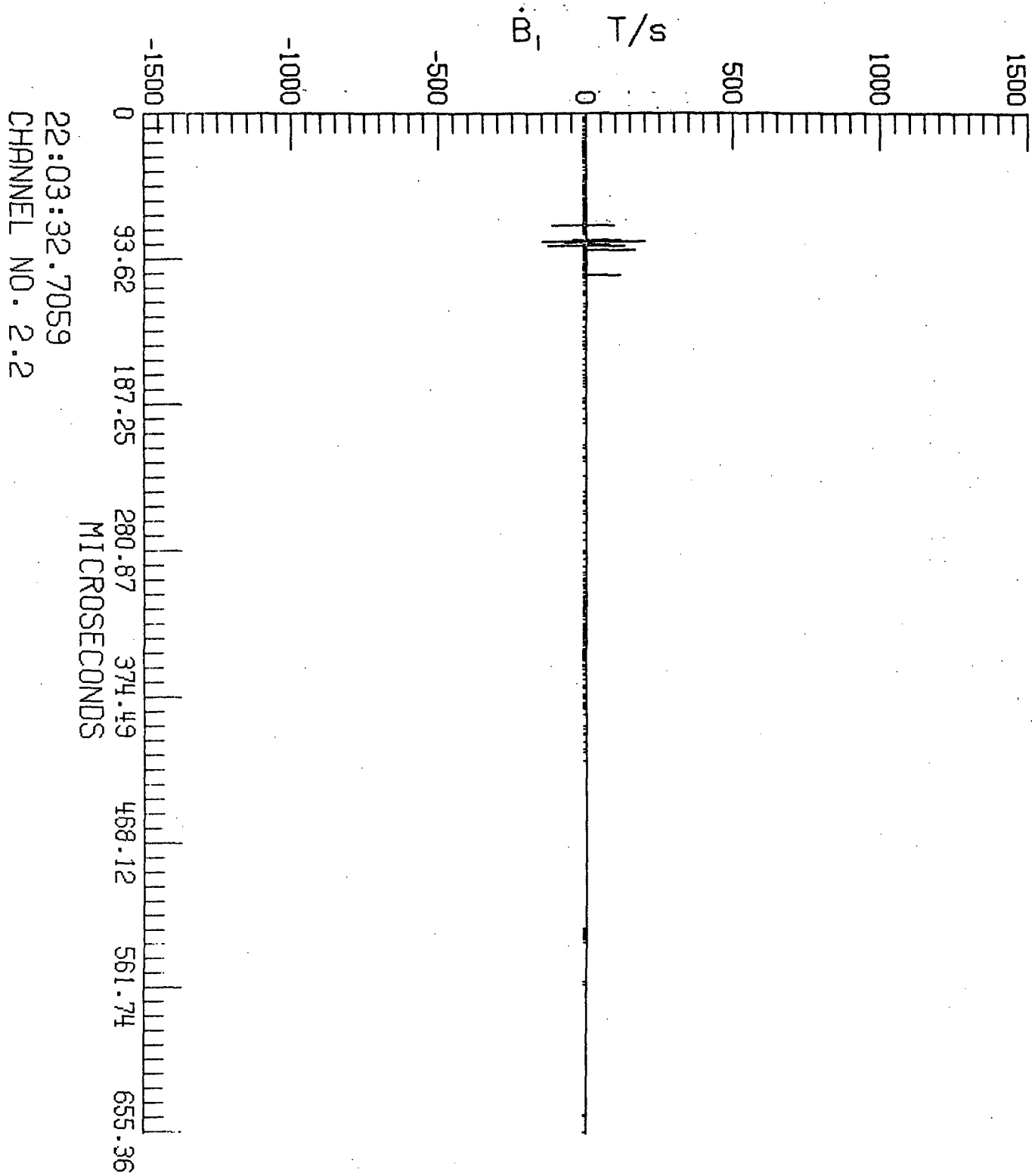
FIGURES	881
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* Part 1 and Part 3 published under separate cover.

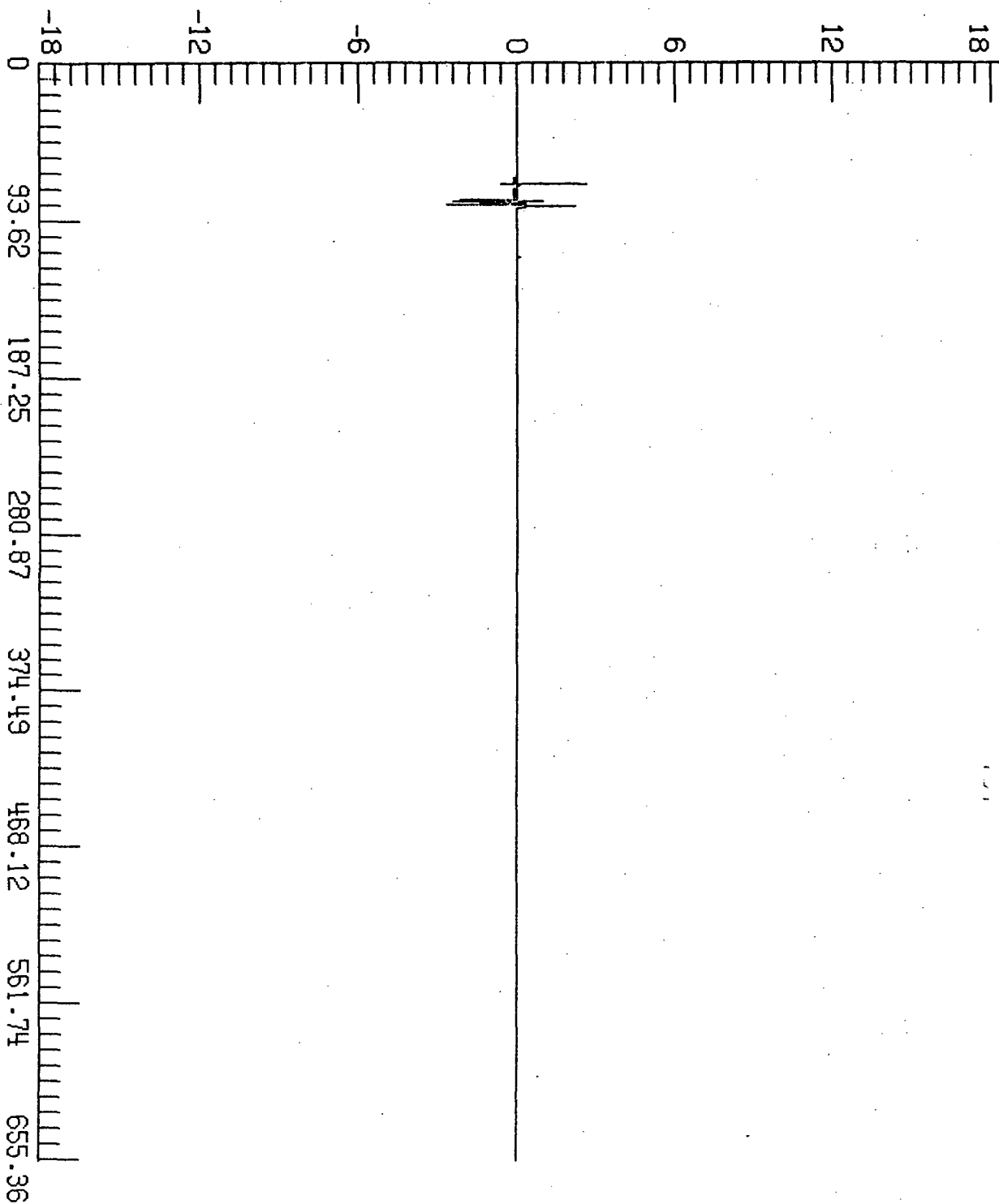


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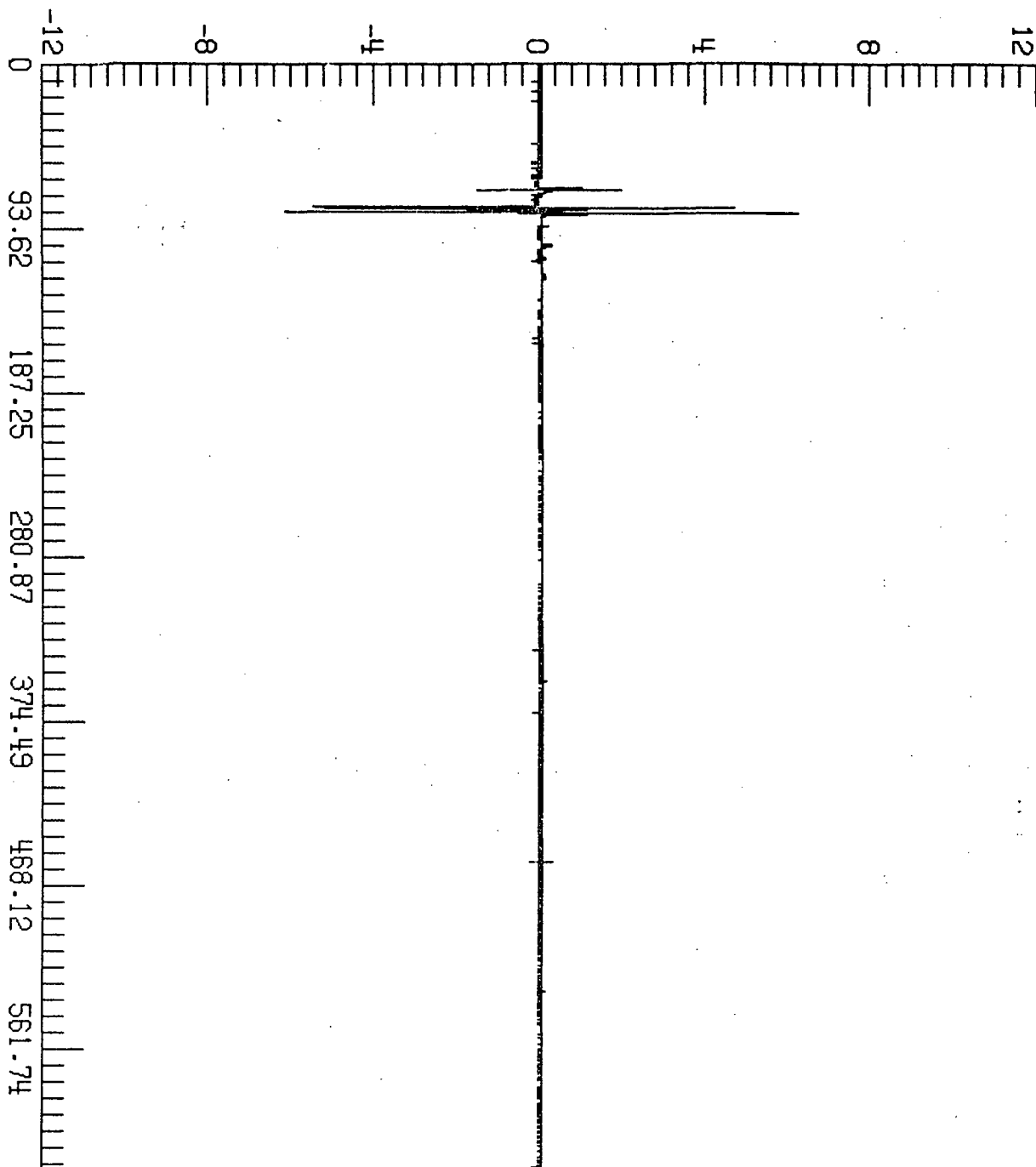


\dot{D}_{wl} A/m²



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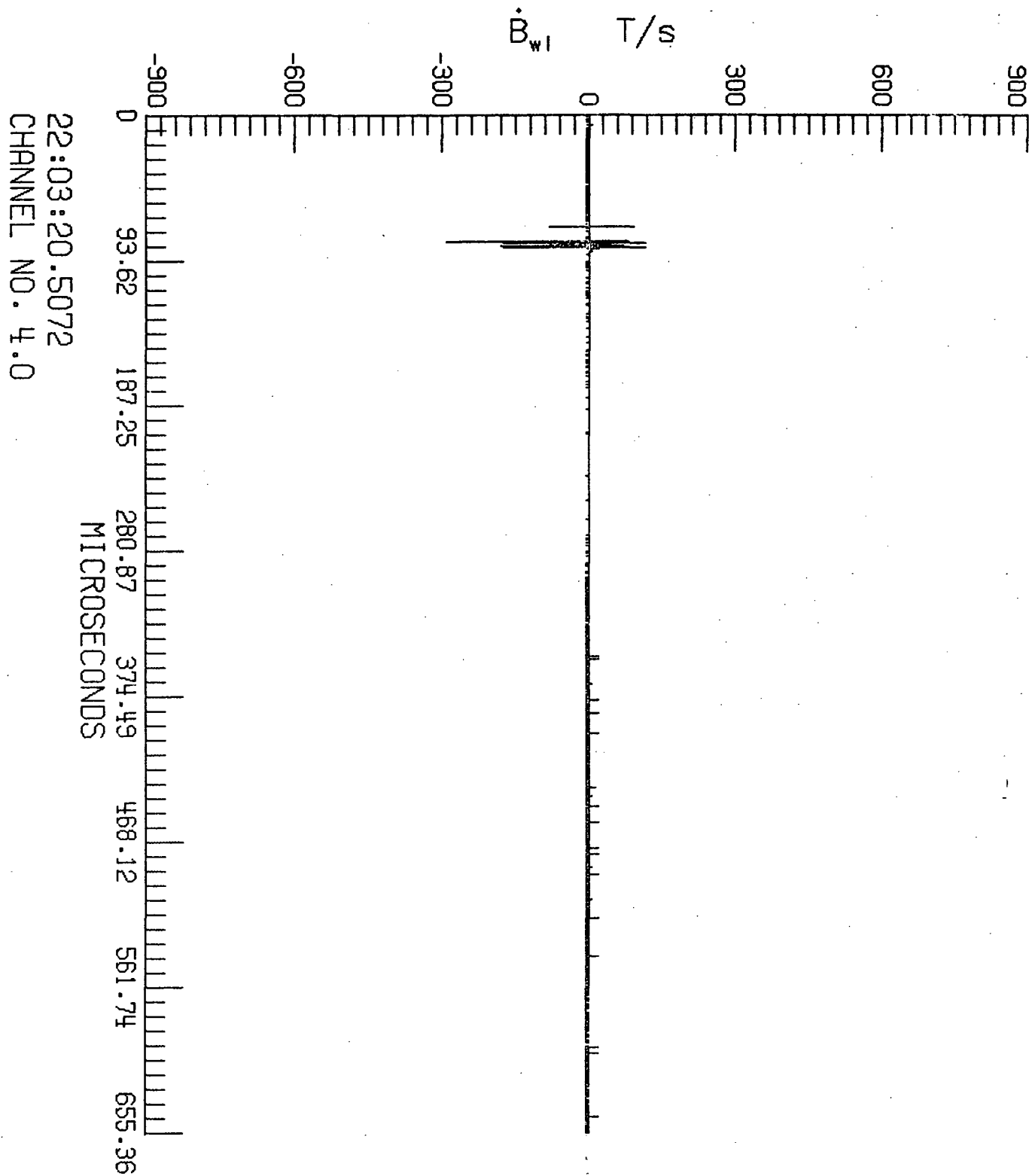


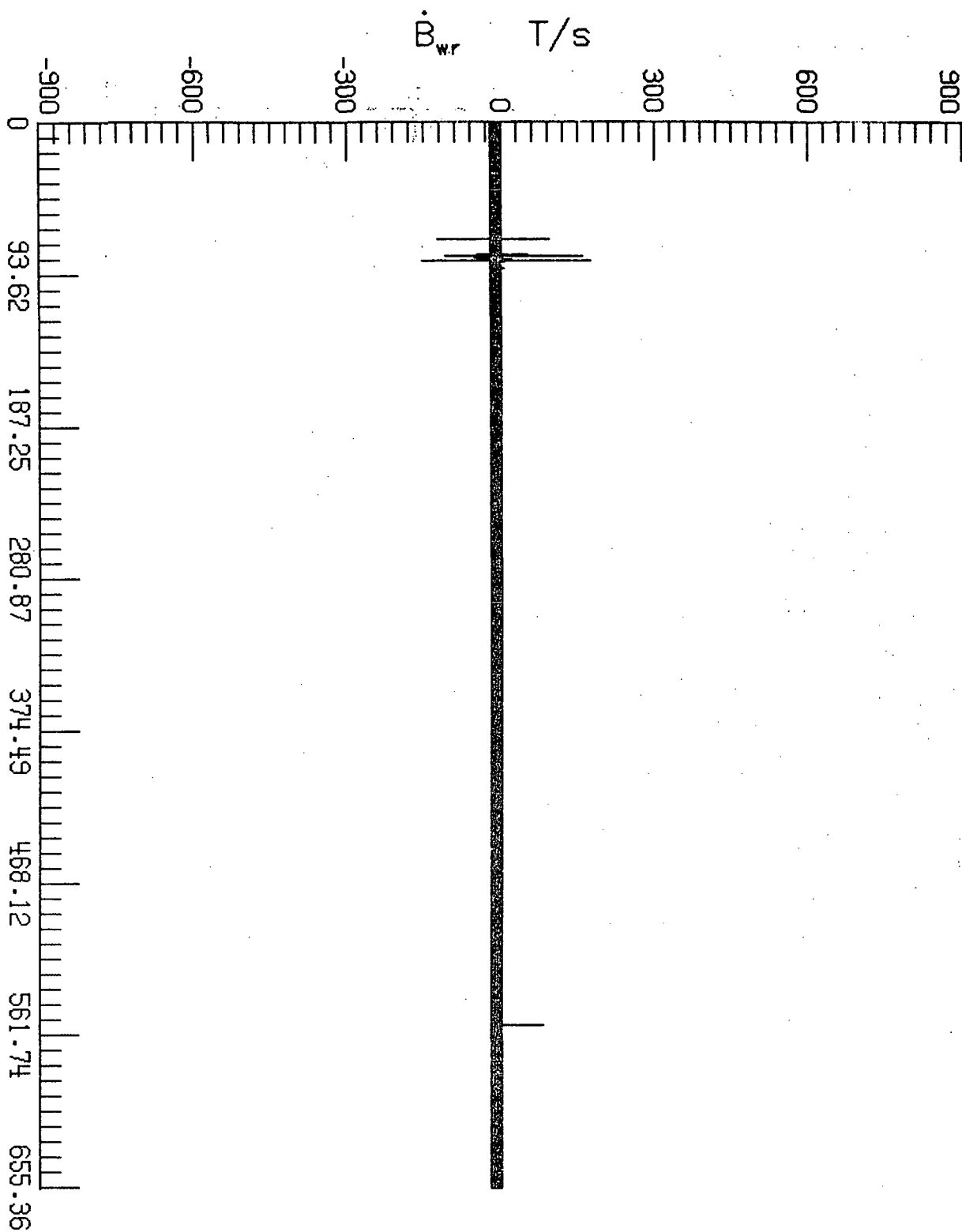
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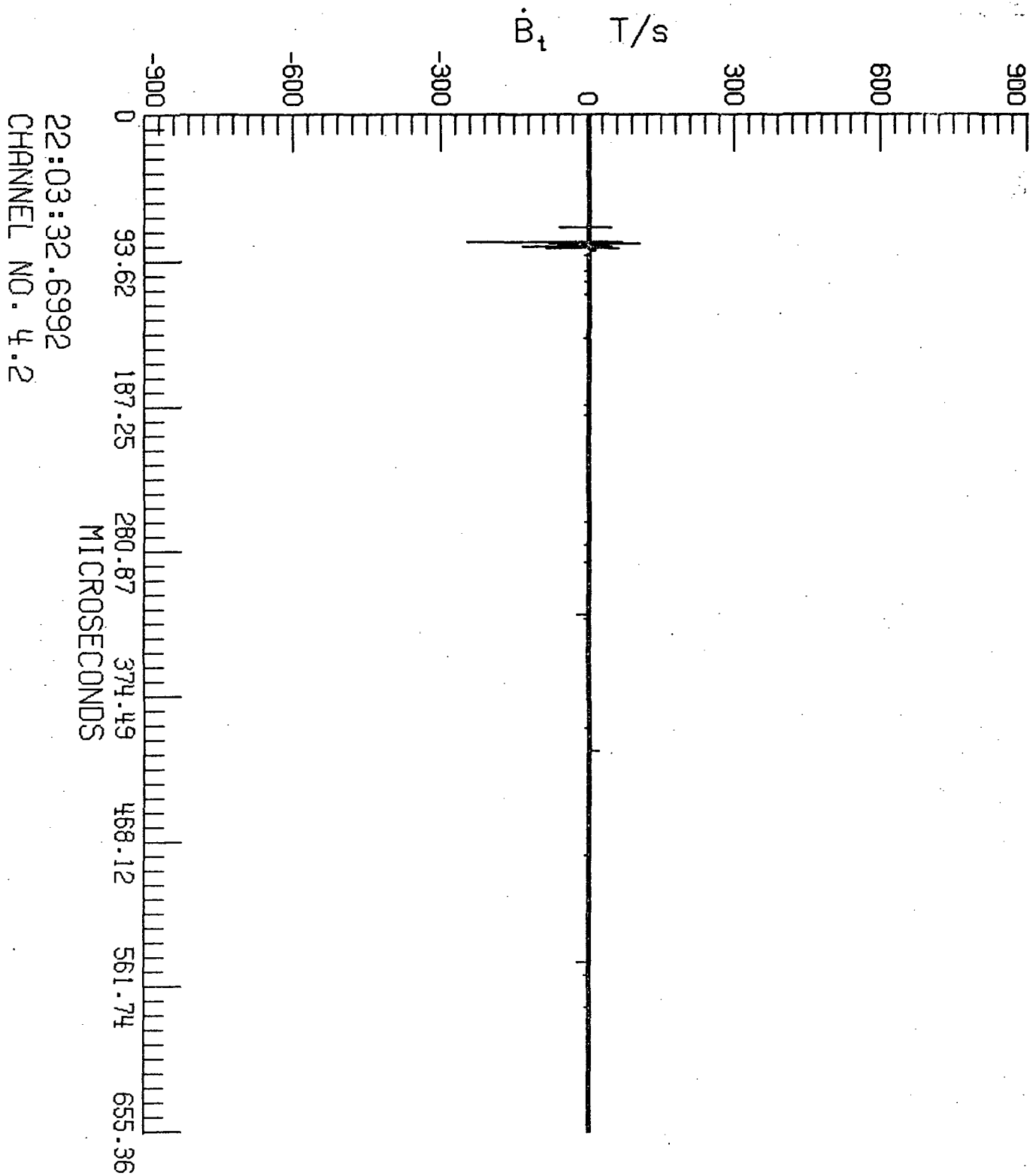
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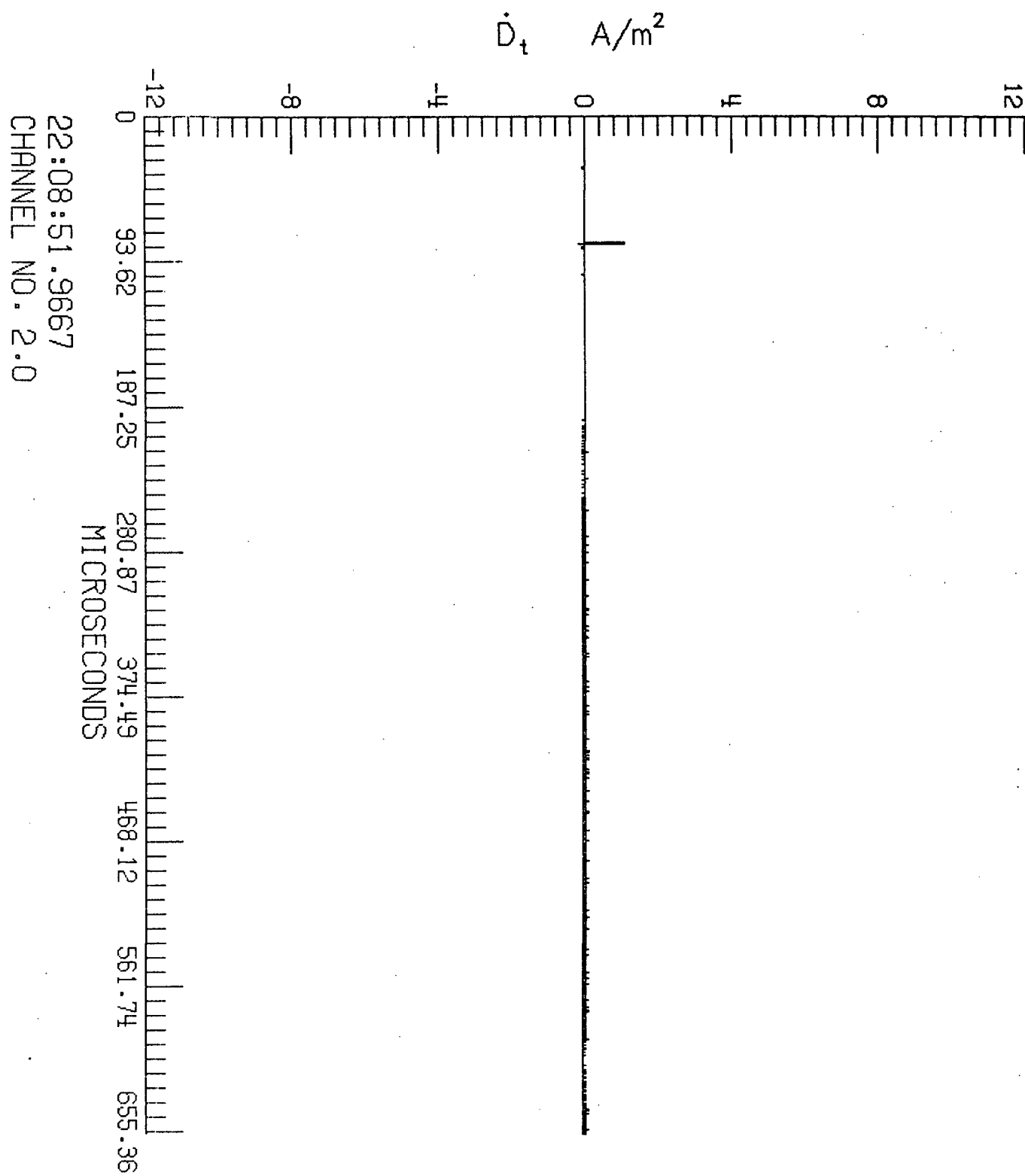


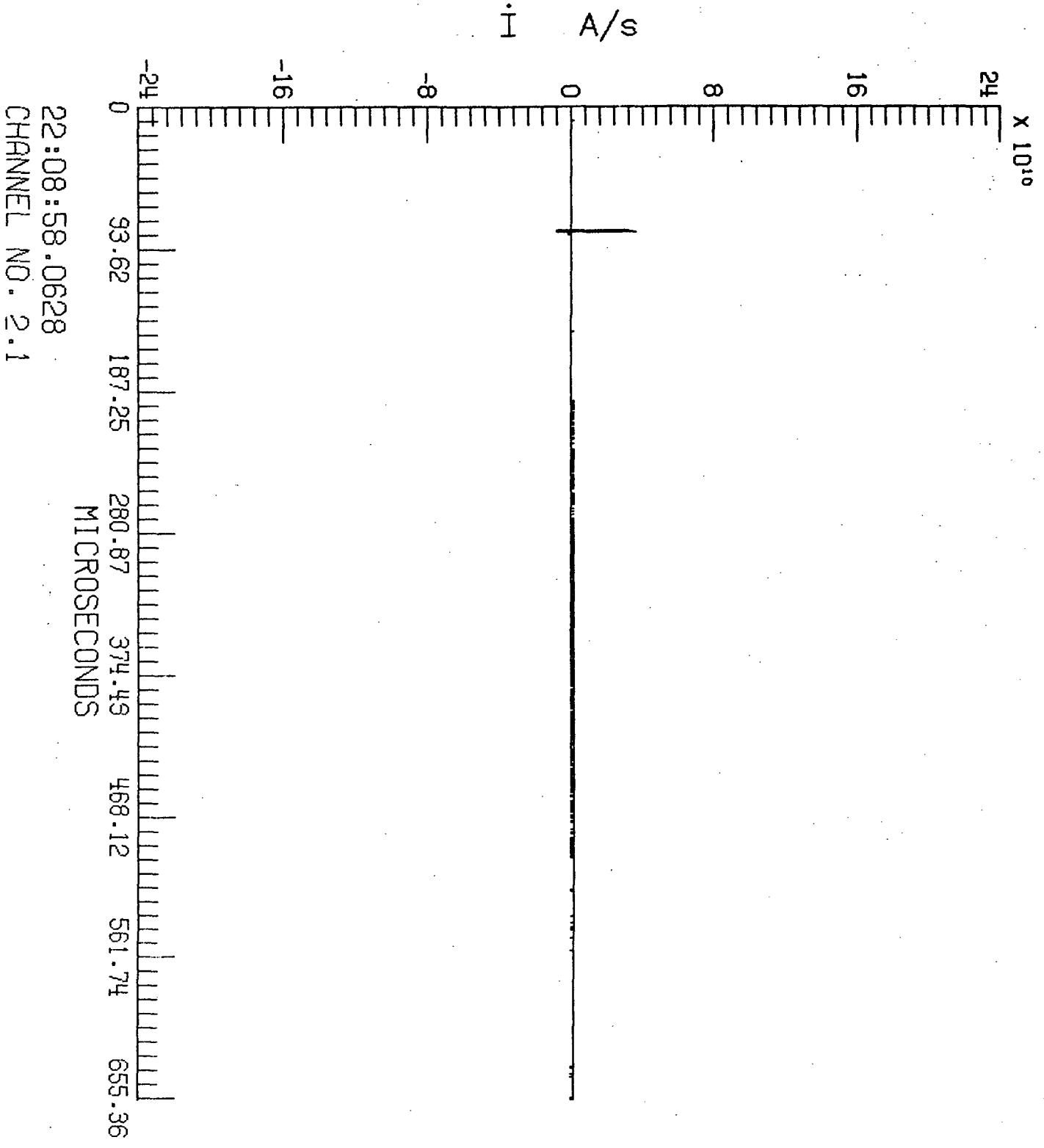
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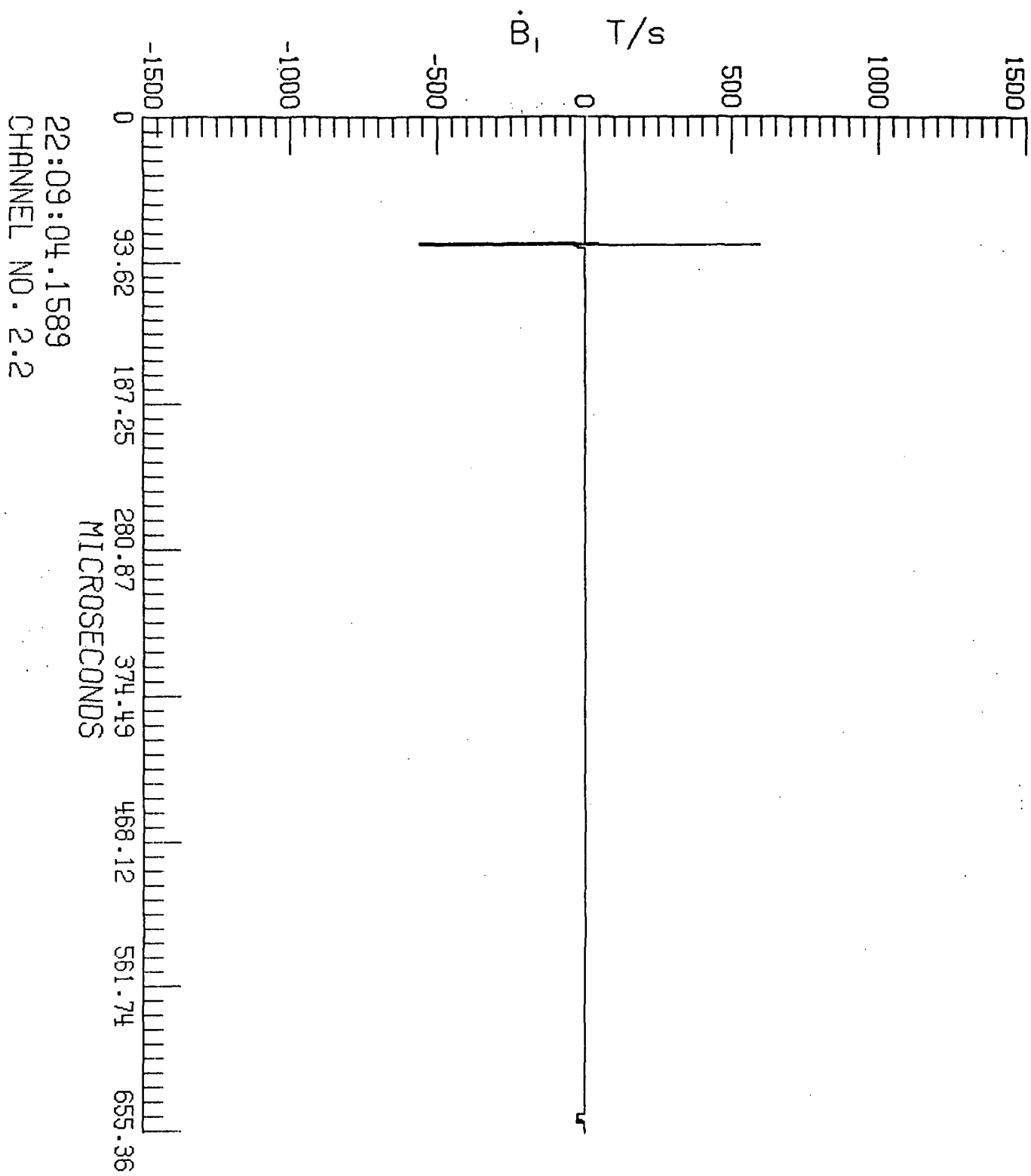


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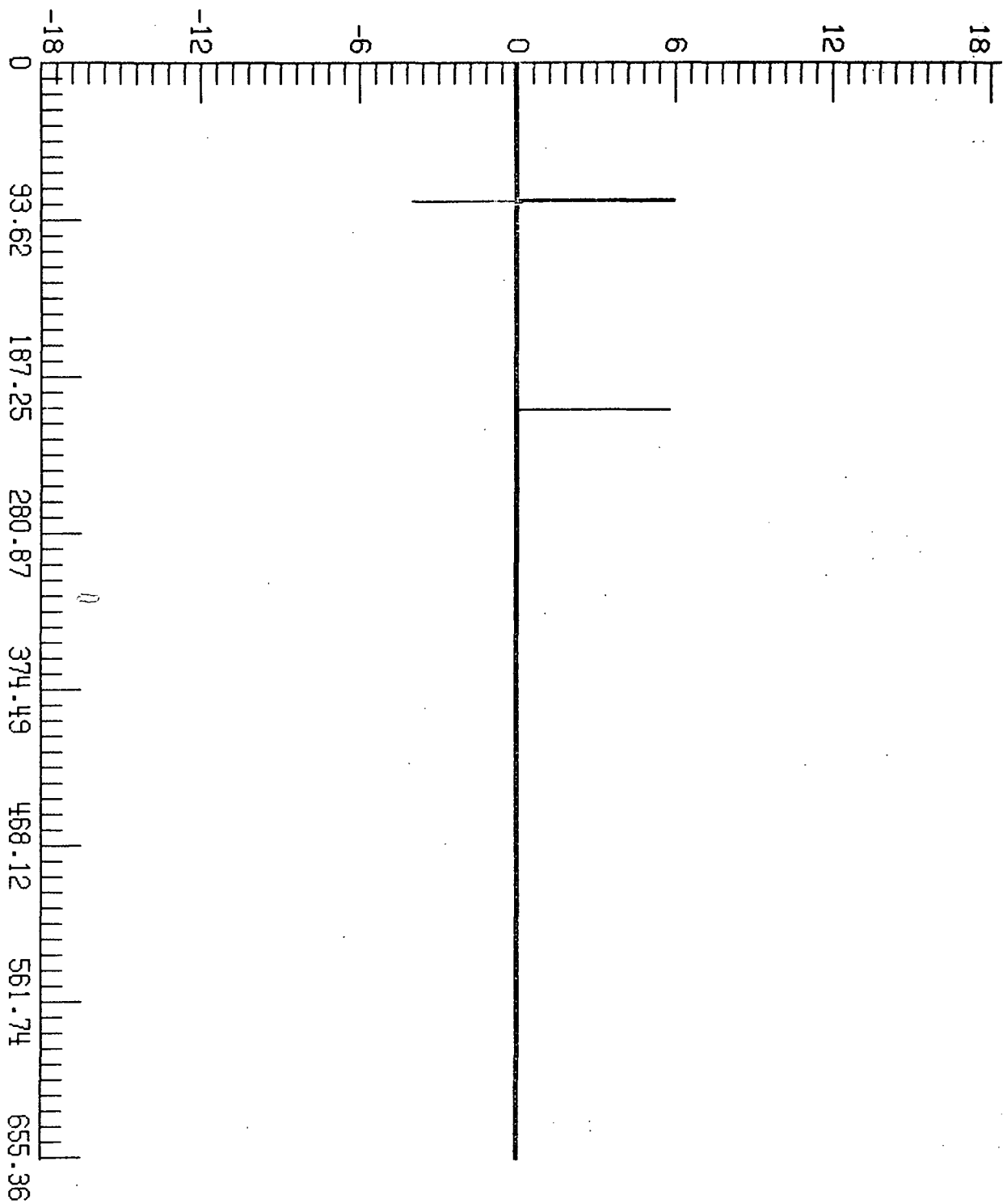
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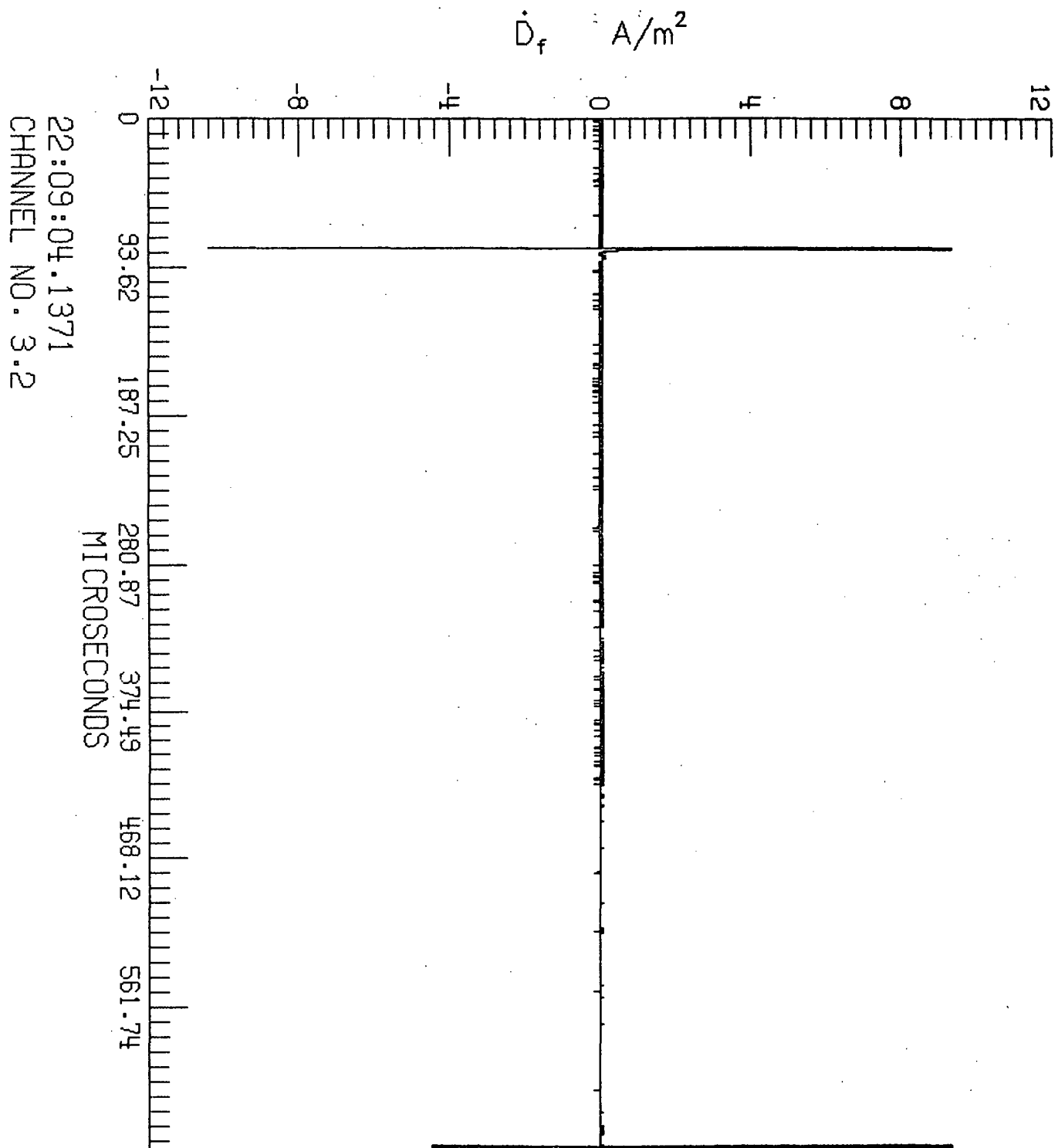


\dot{D}_{w1} A/m^2



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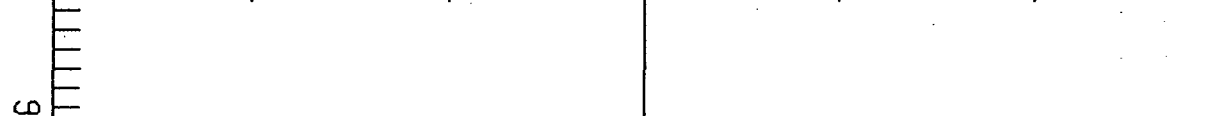
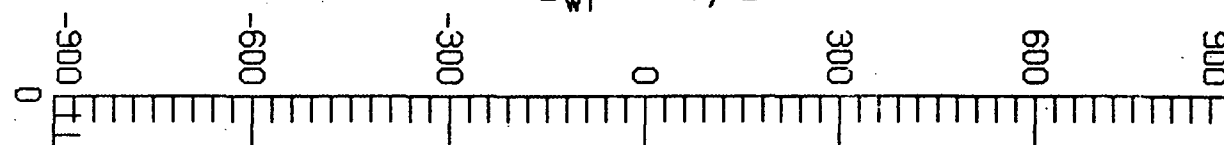
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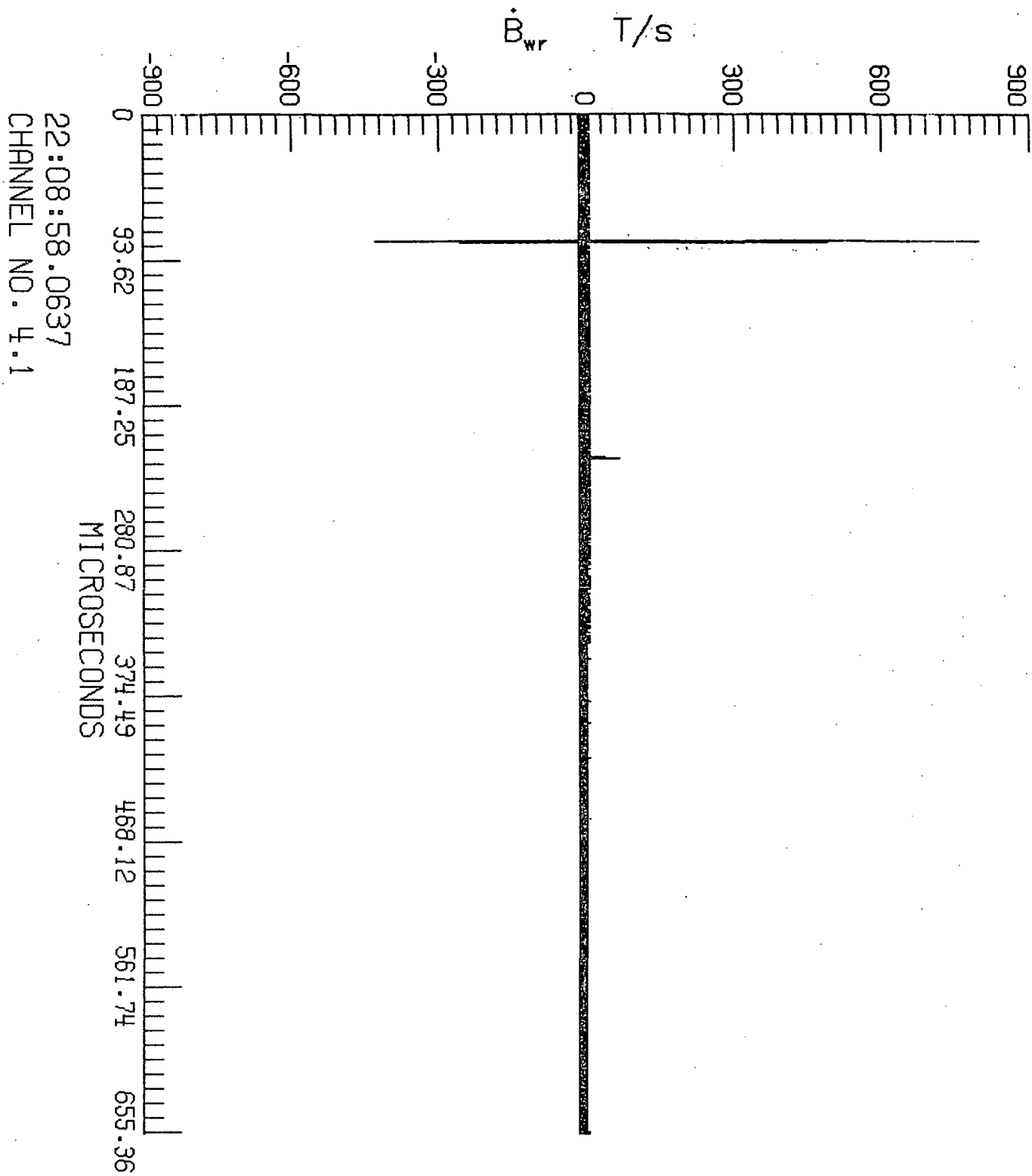
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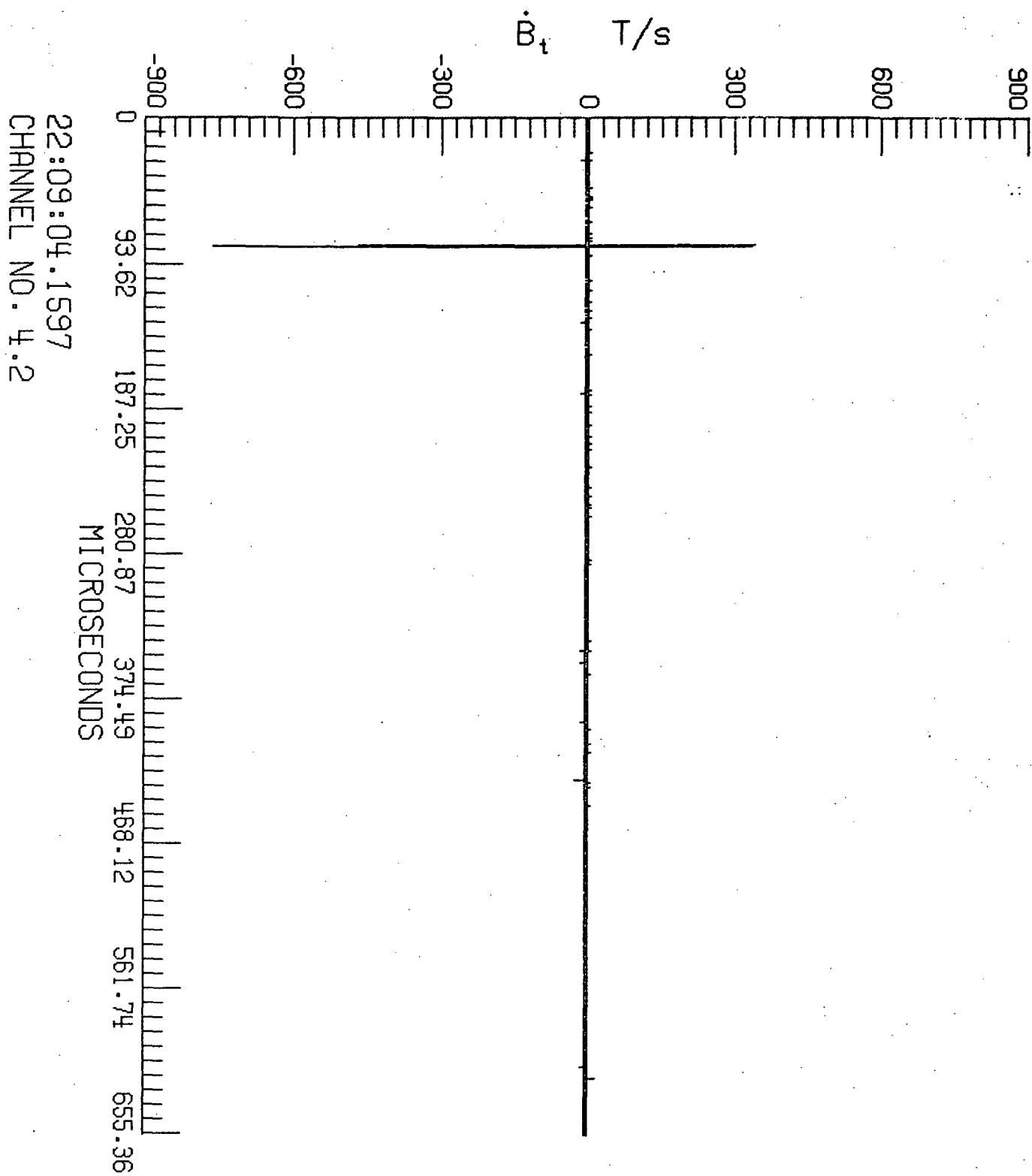


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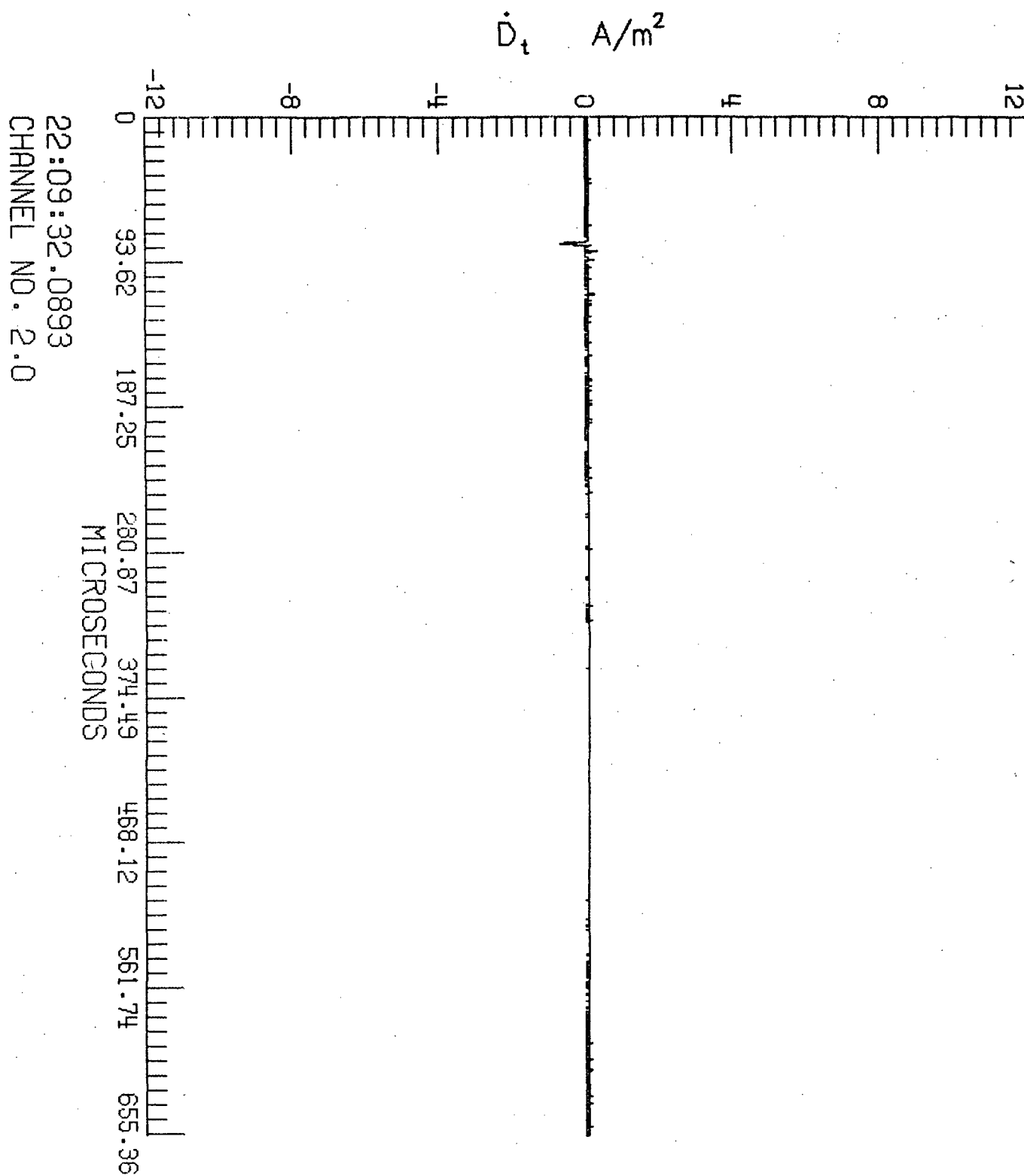
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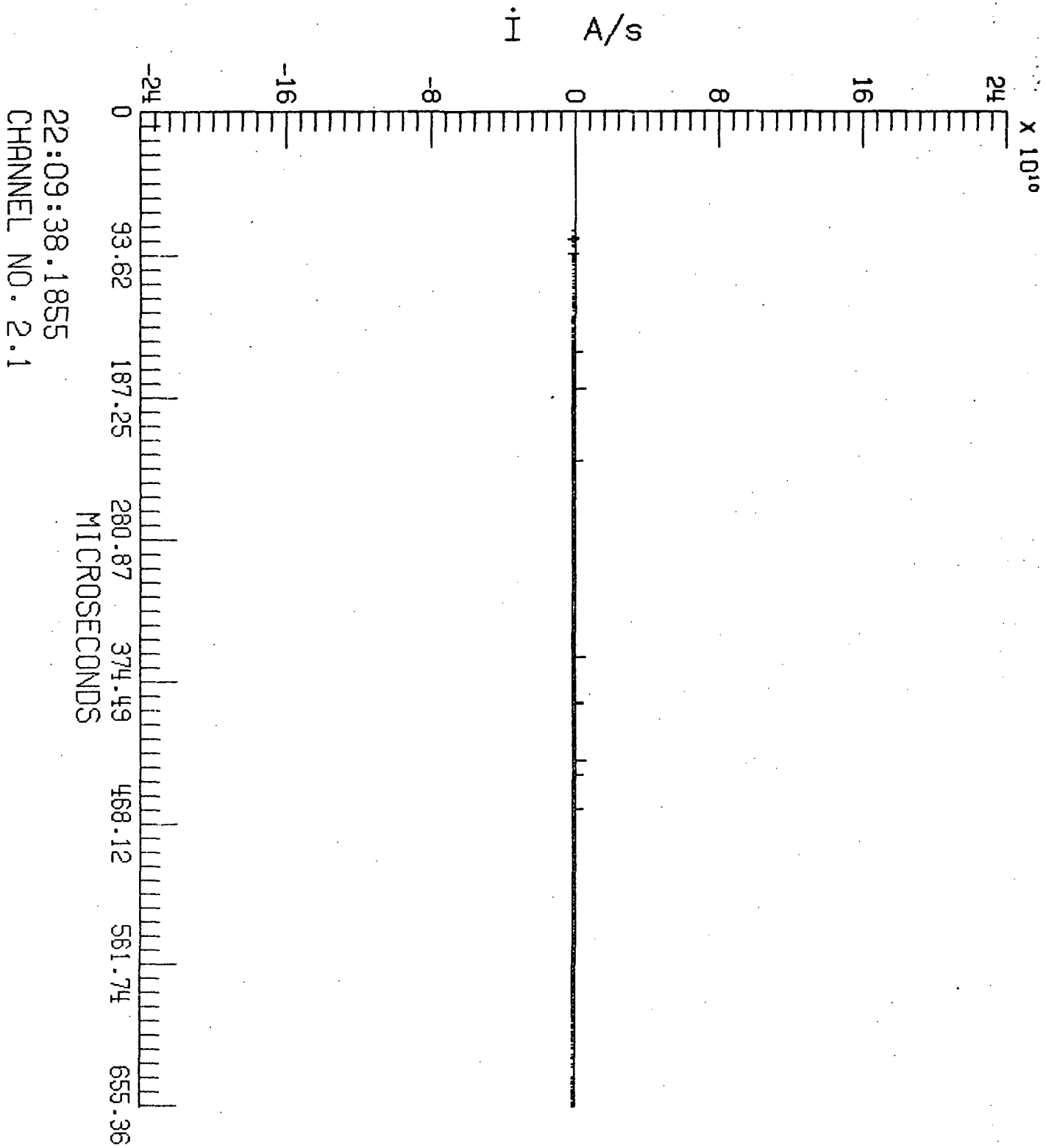


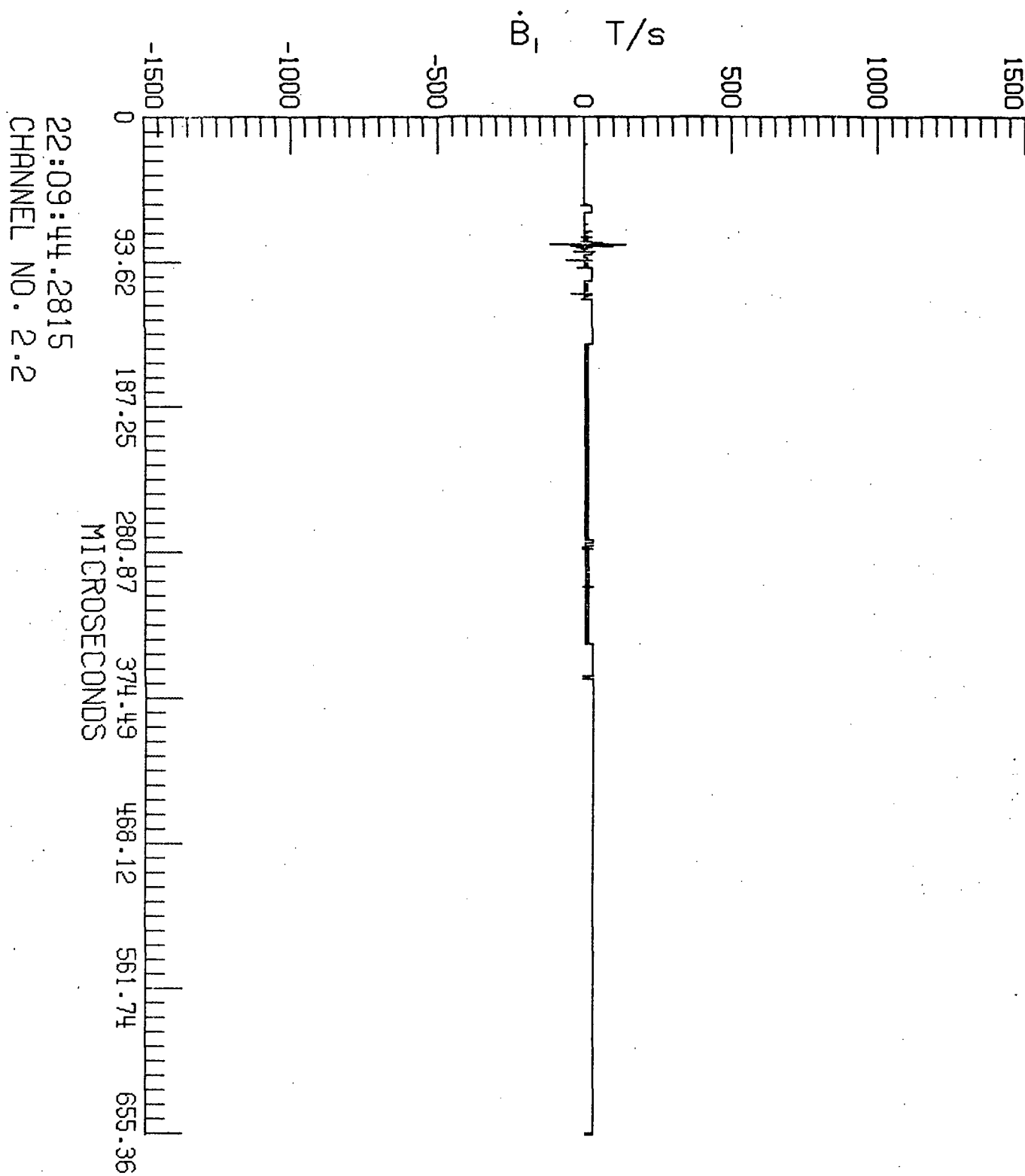


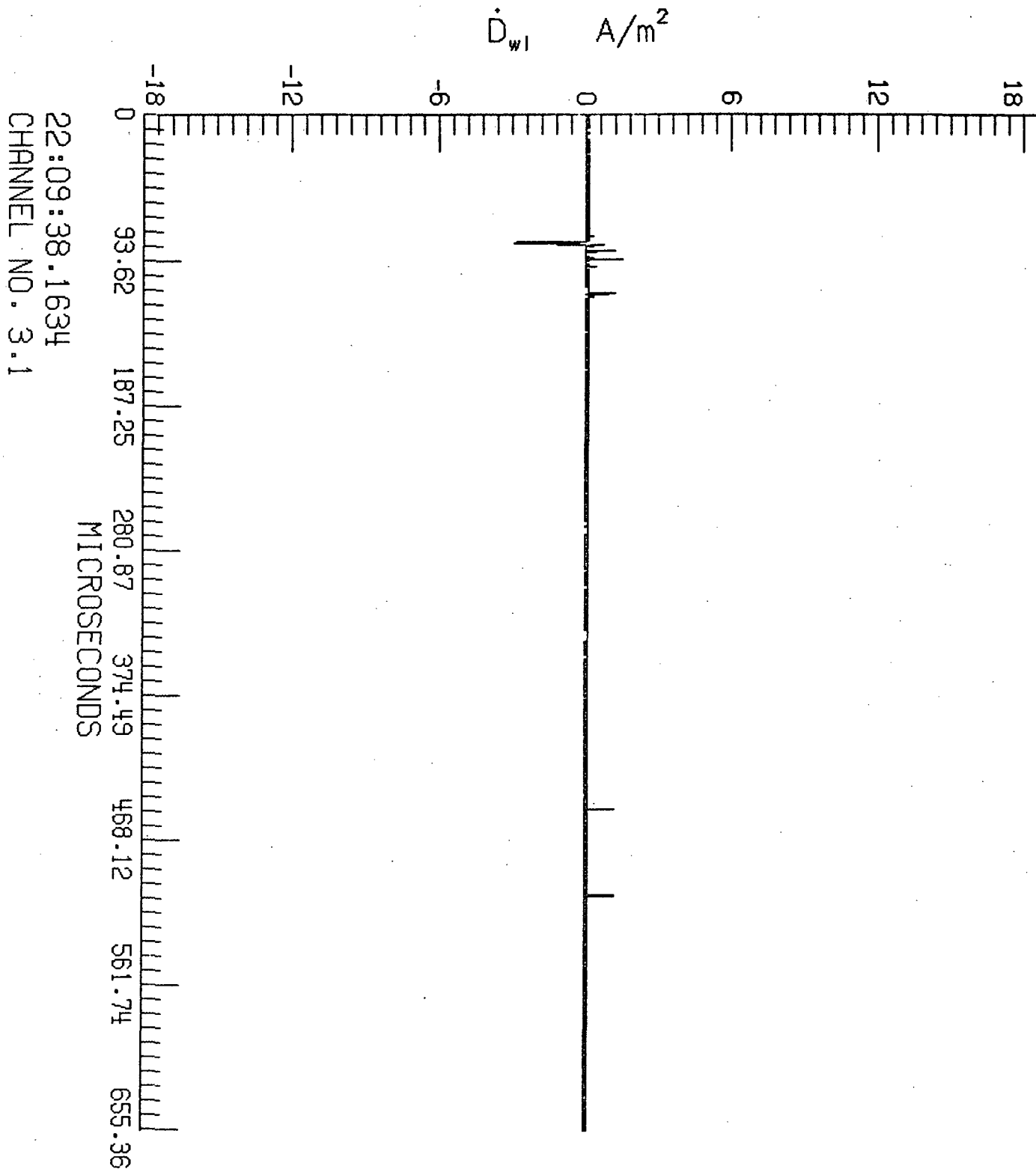
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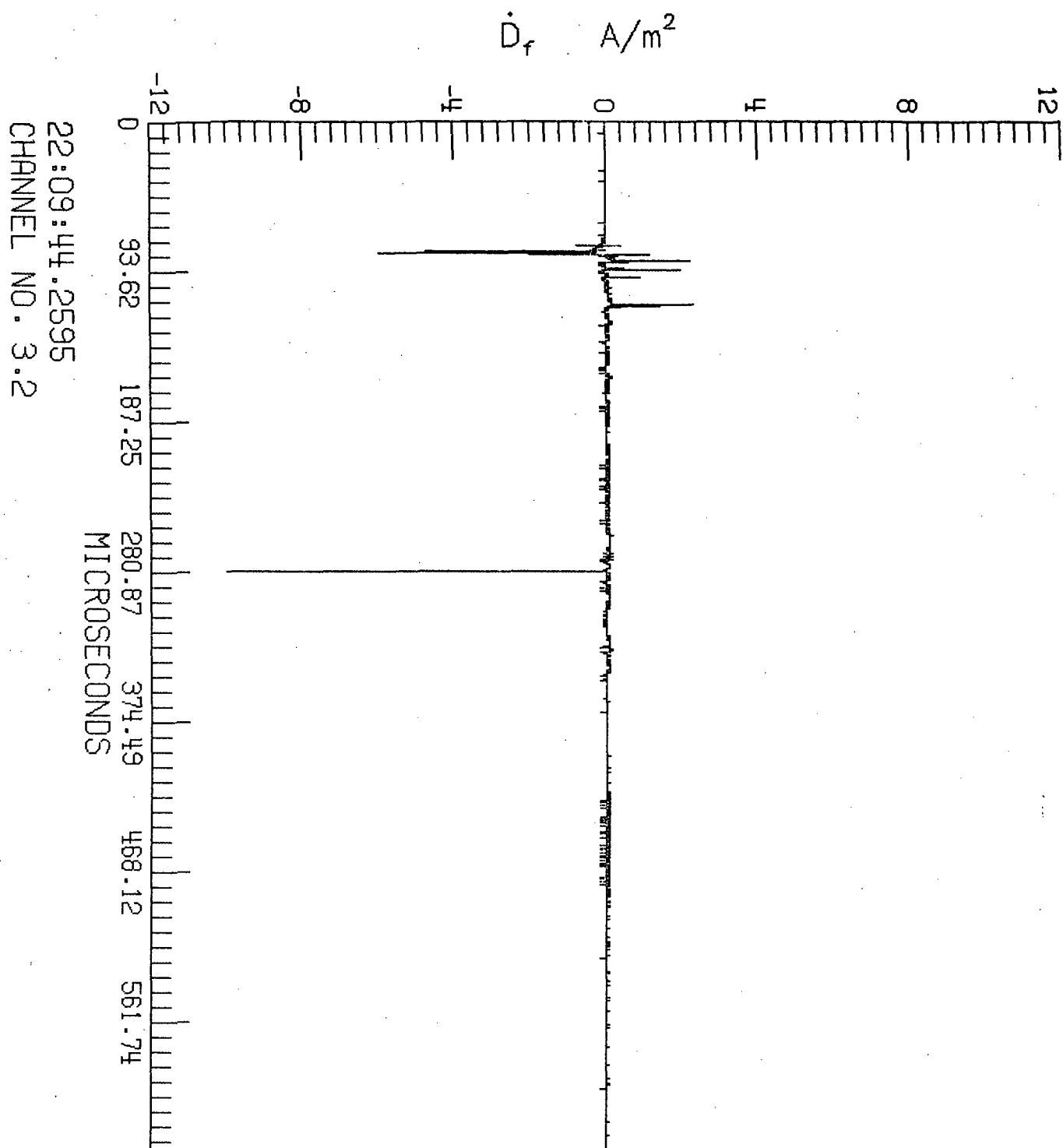
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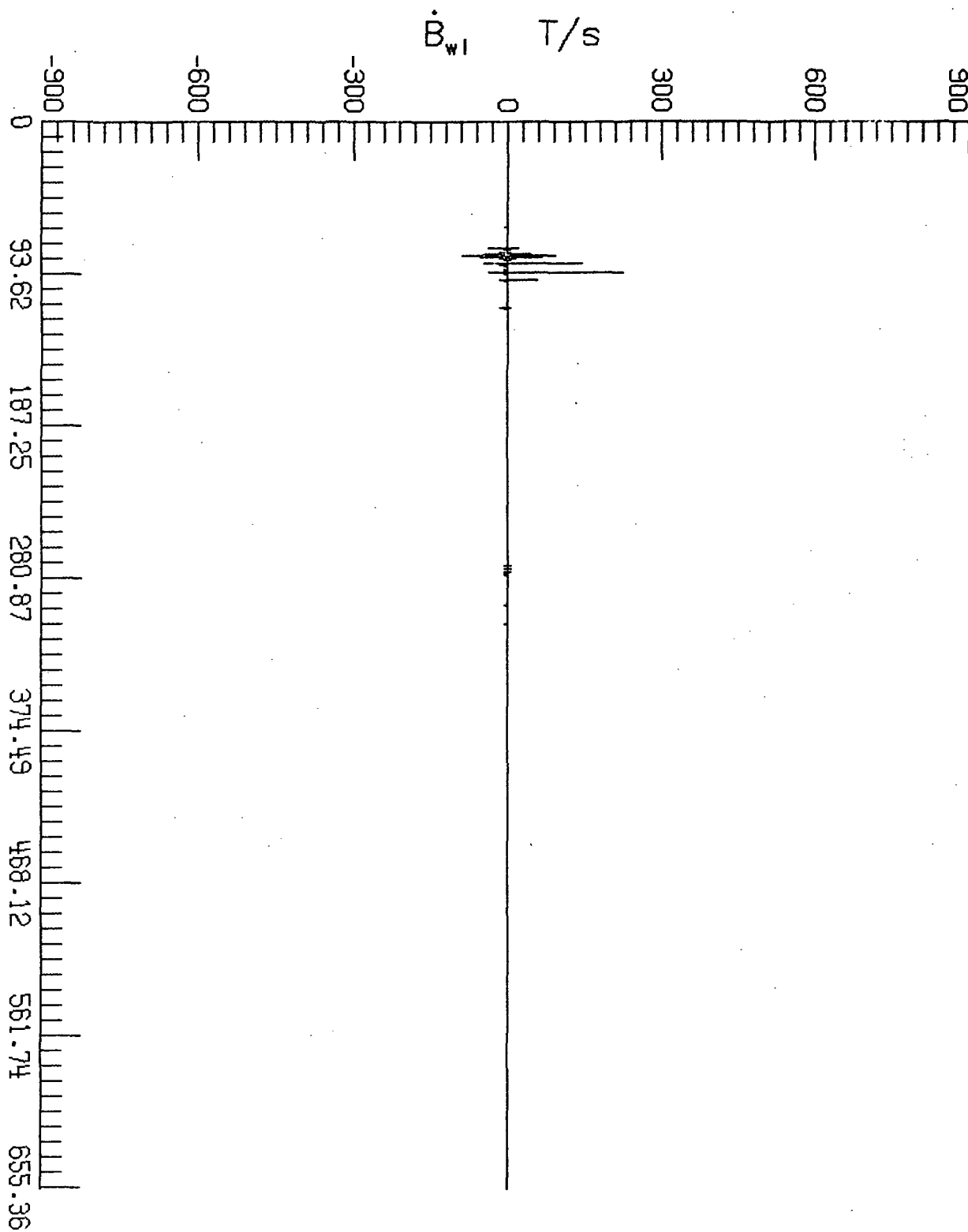




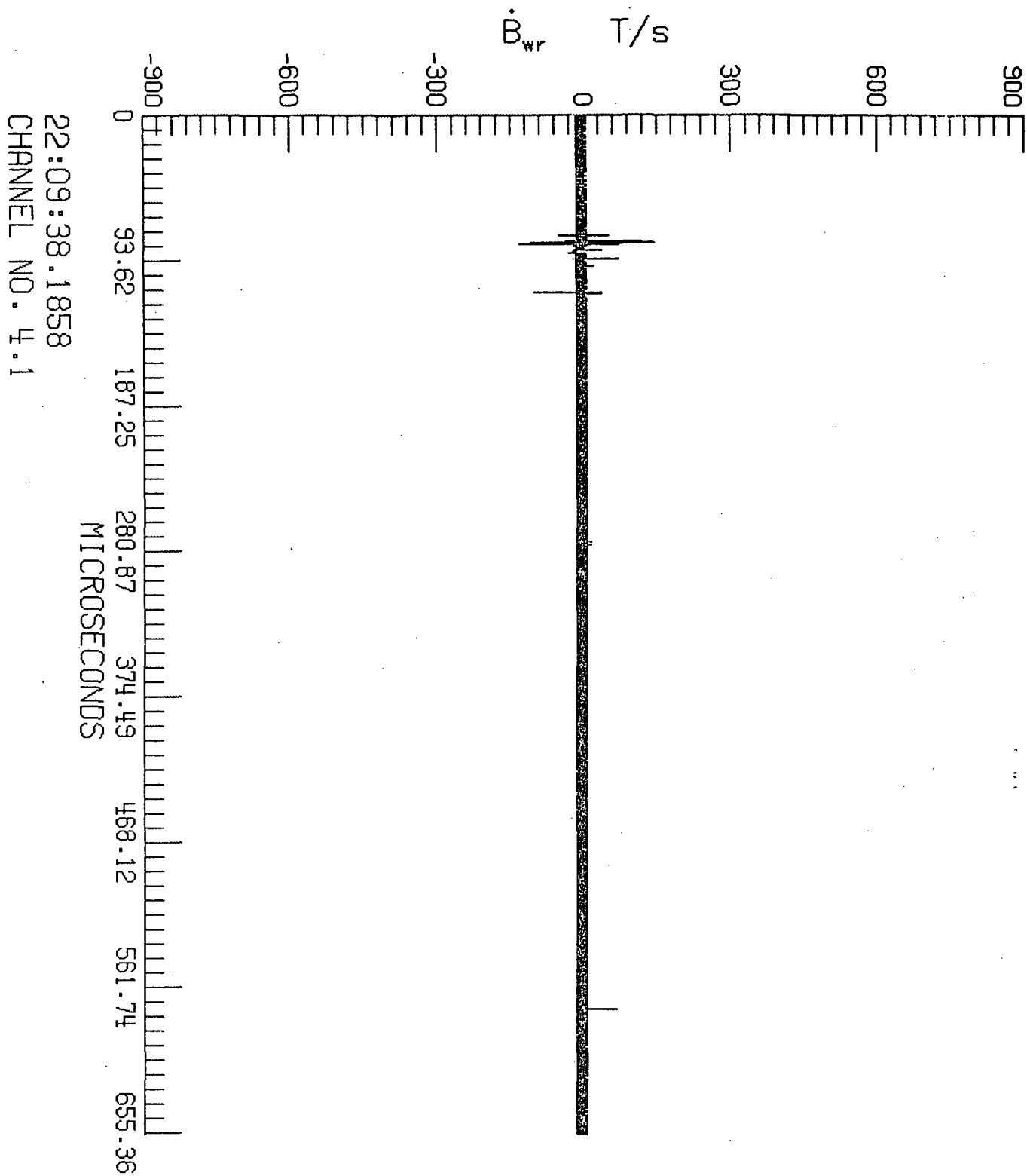


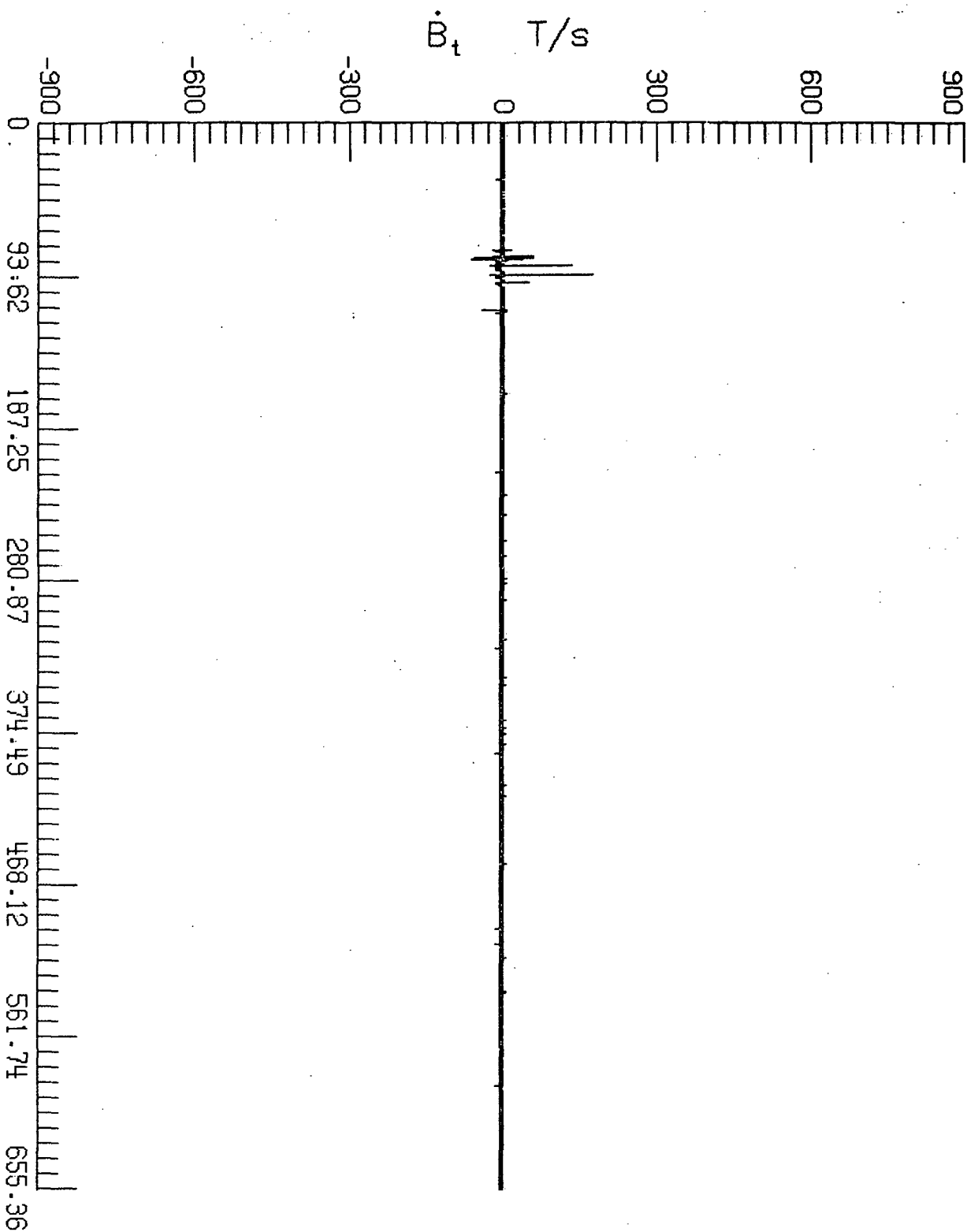
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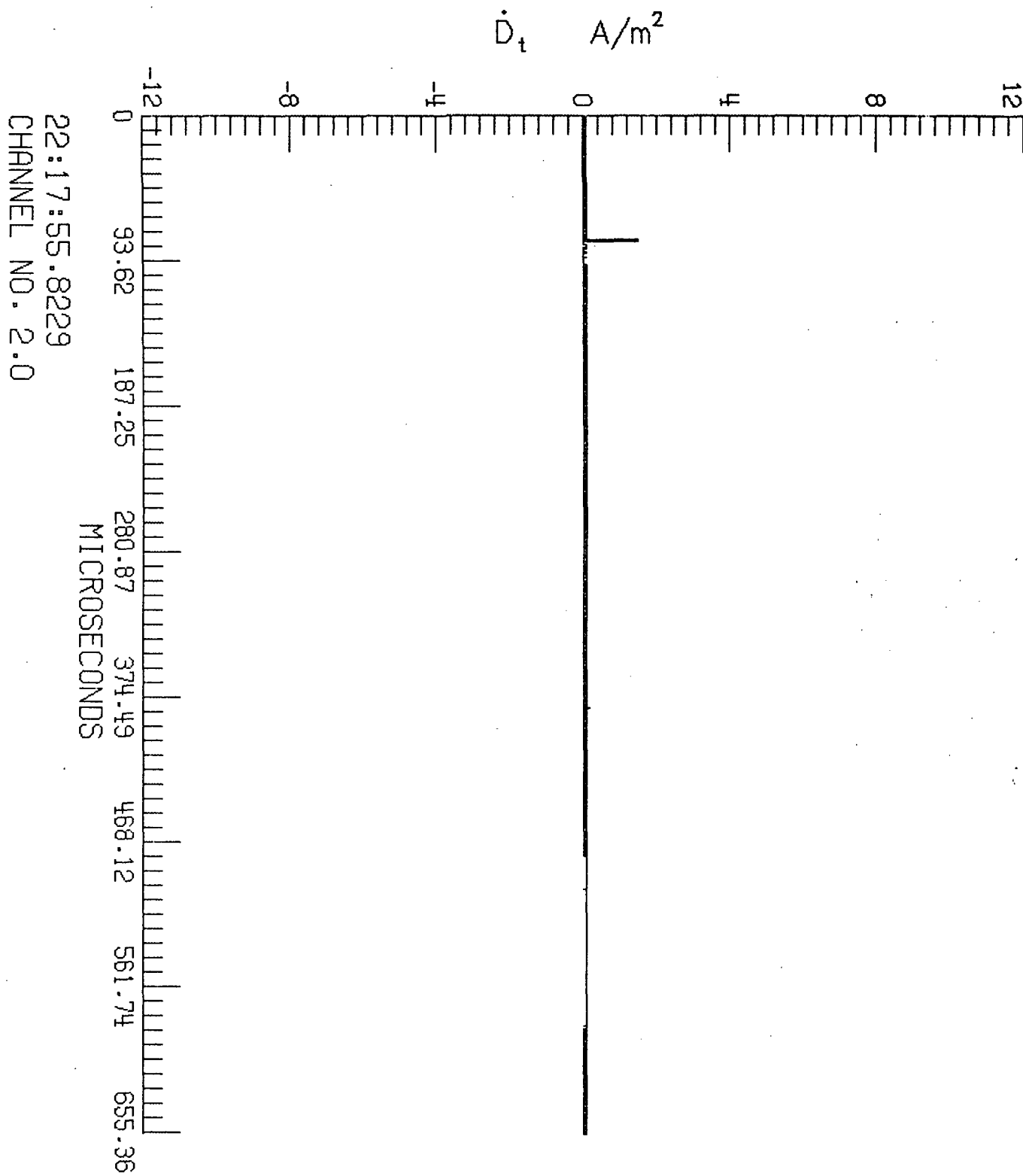


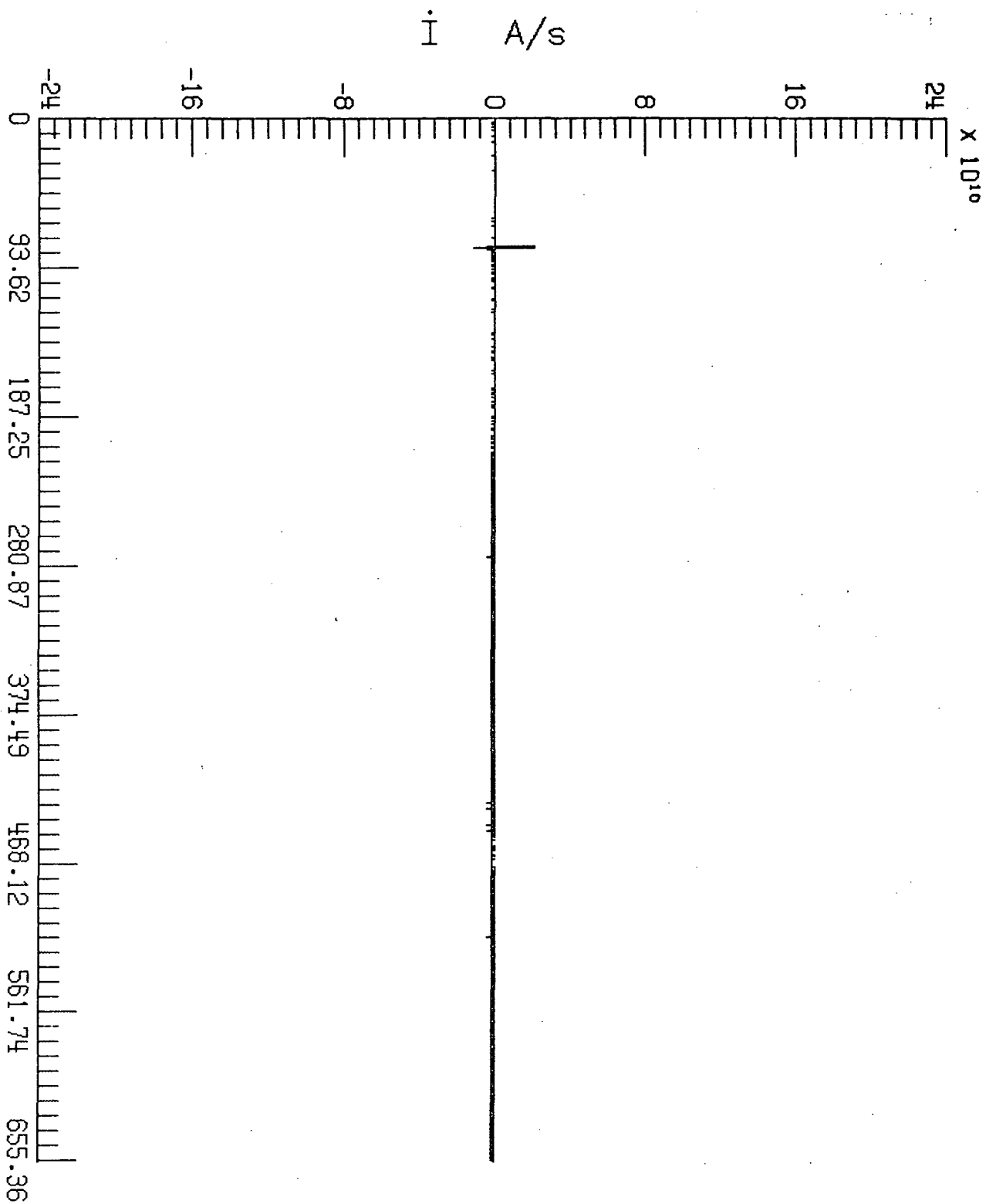
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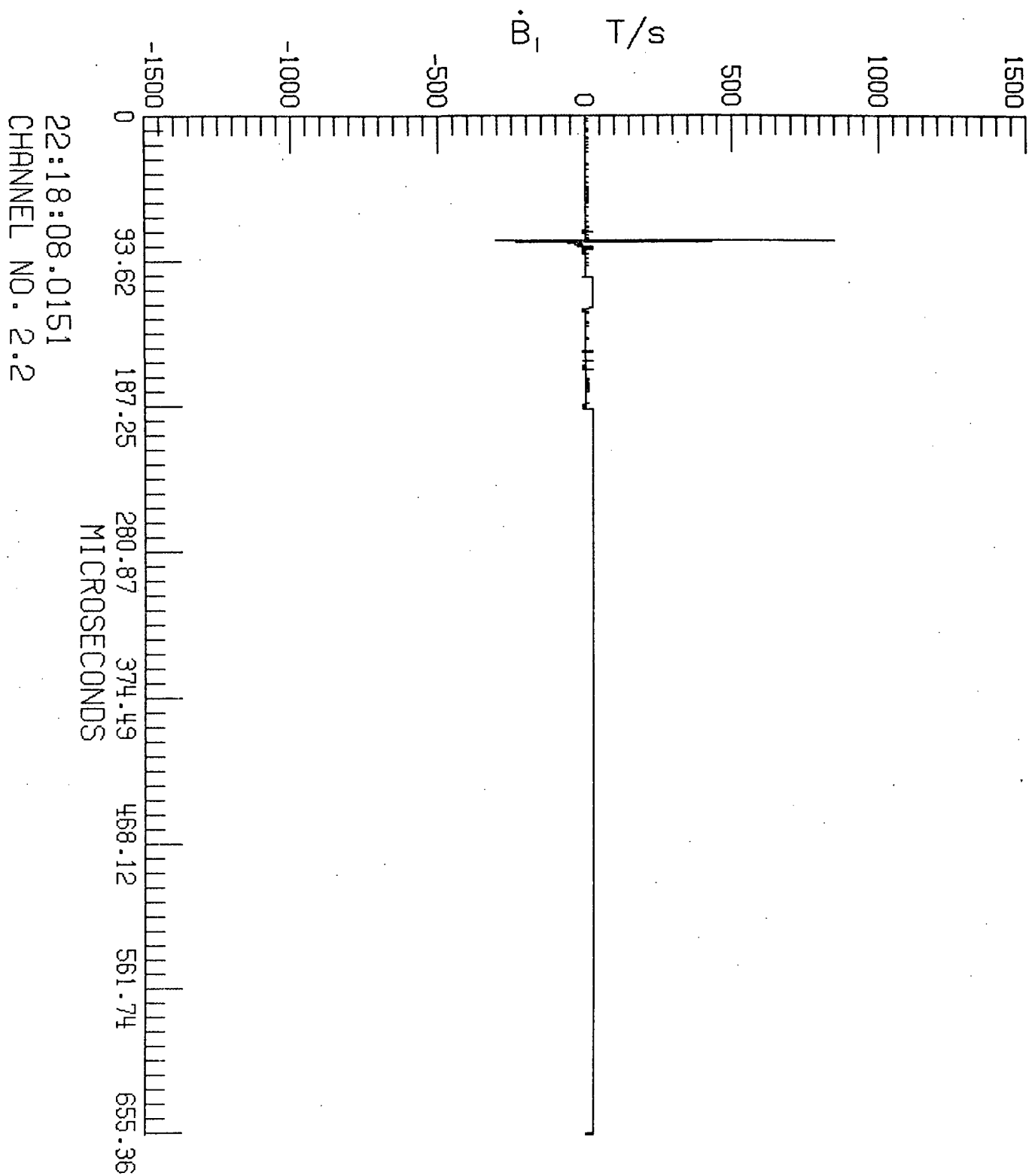


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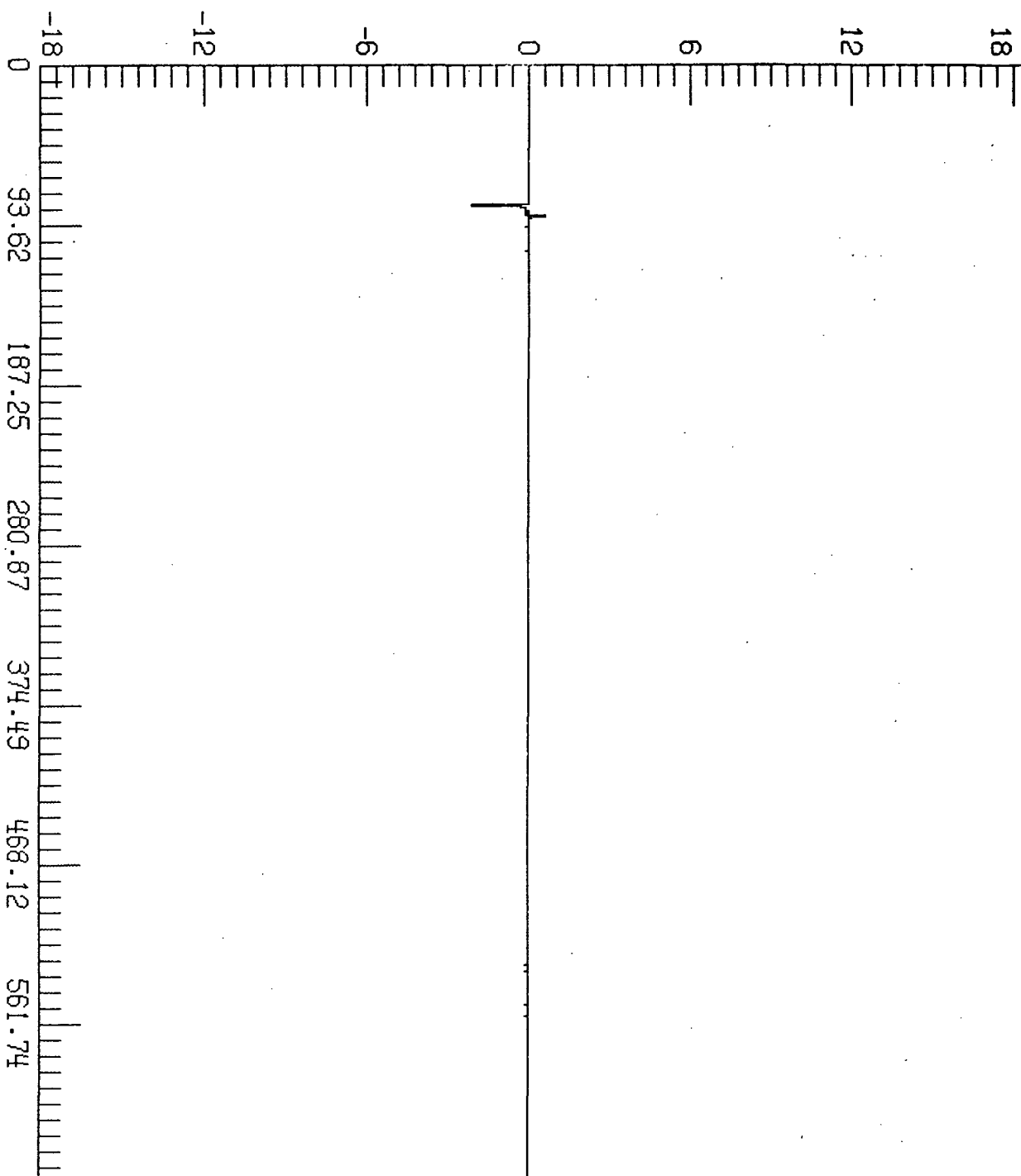




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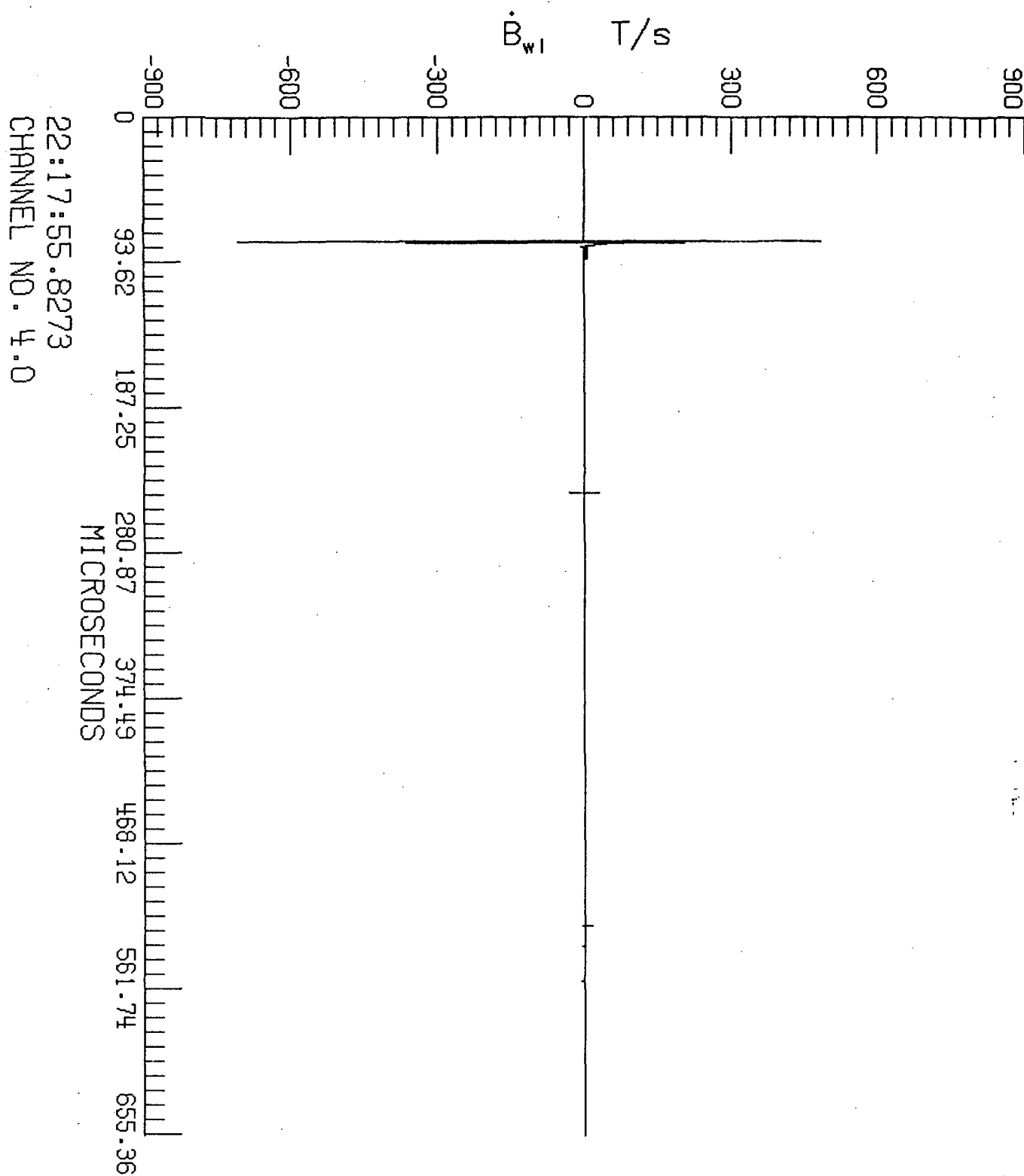


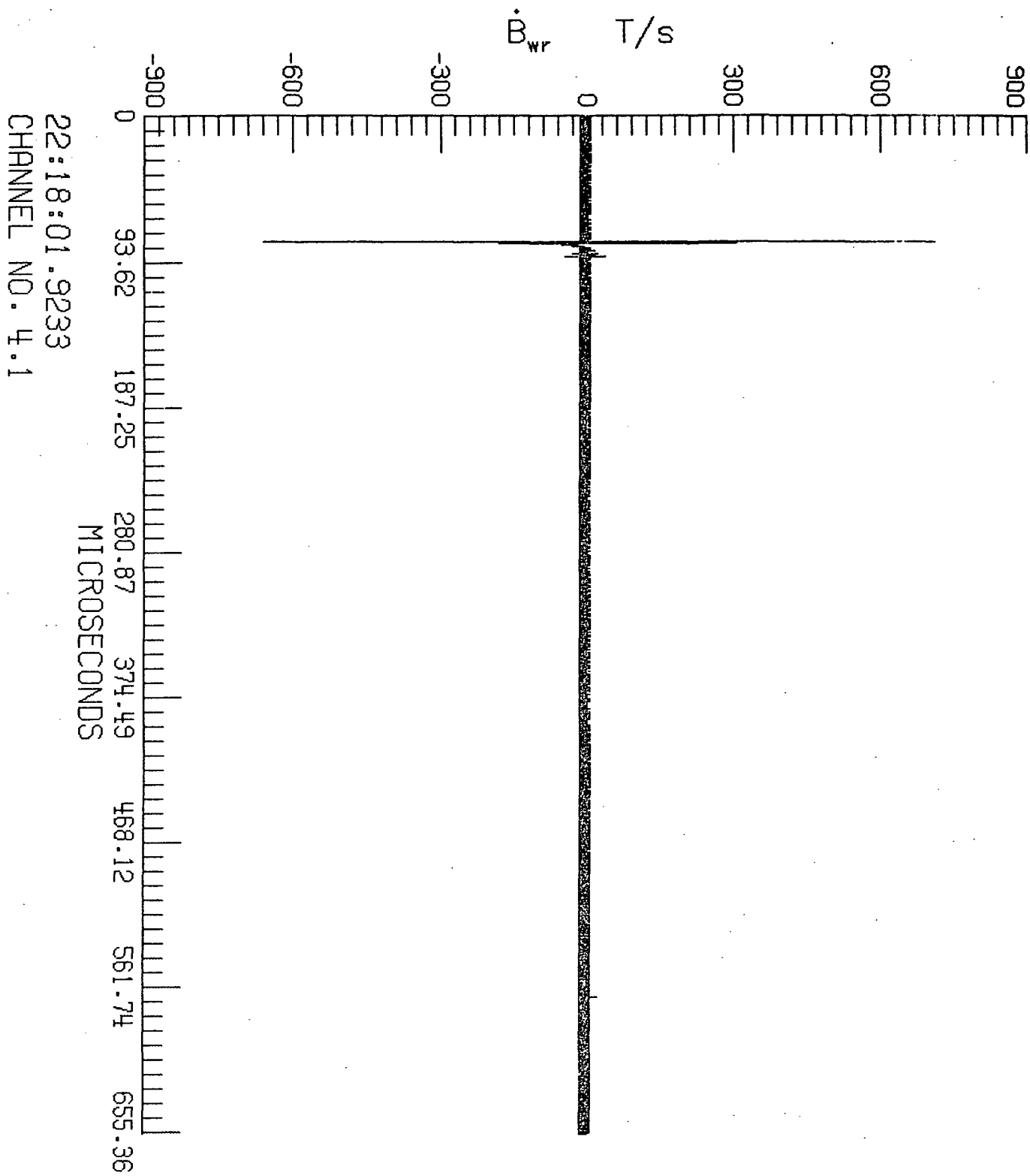
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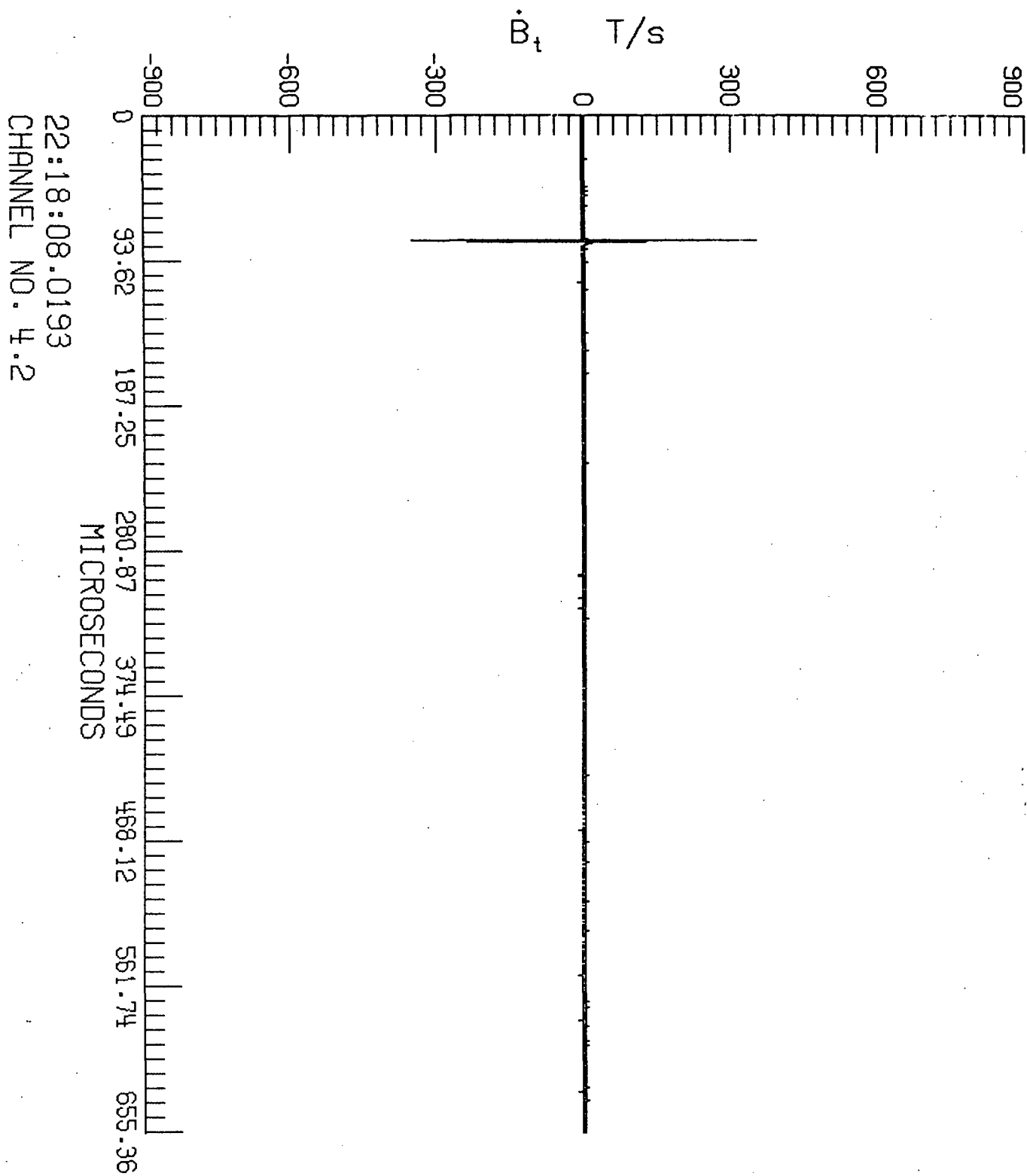


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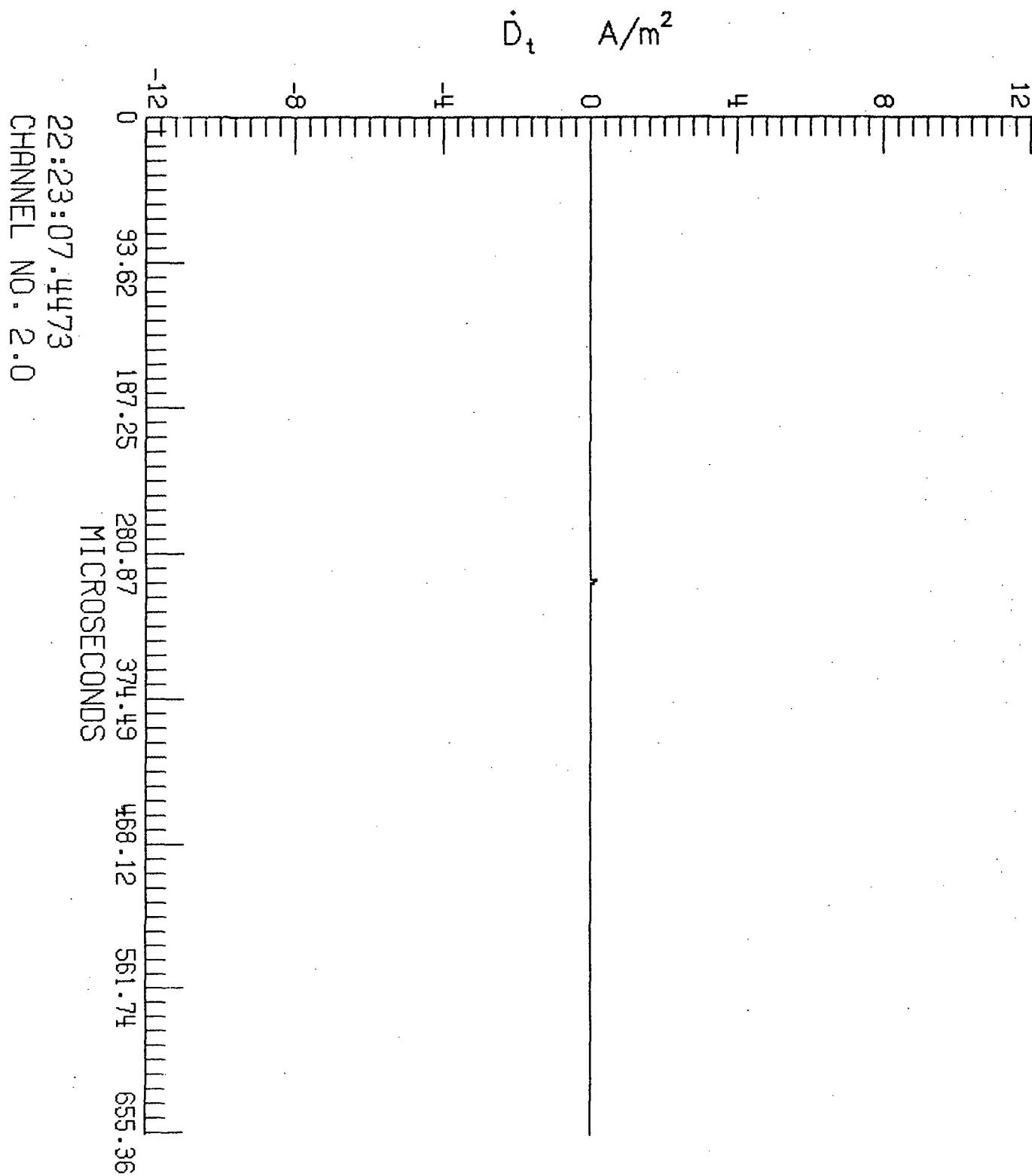






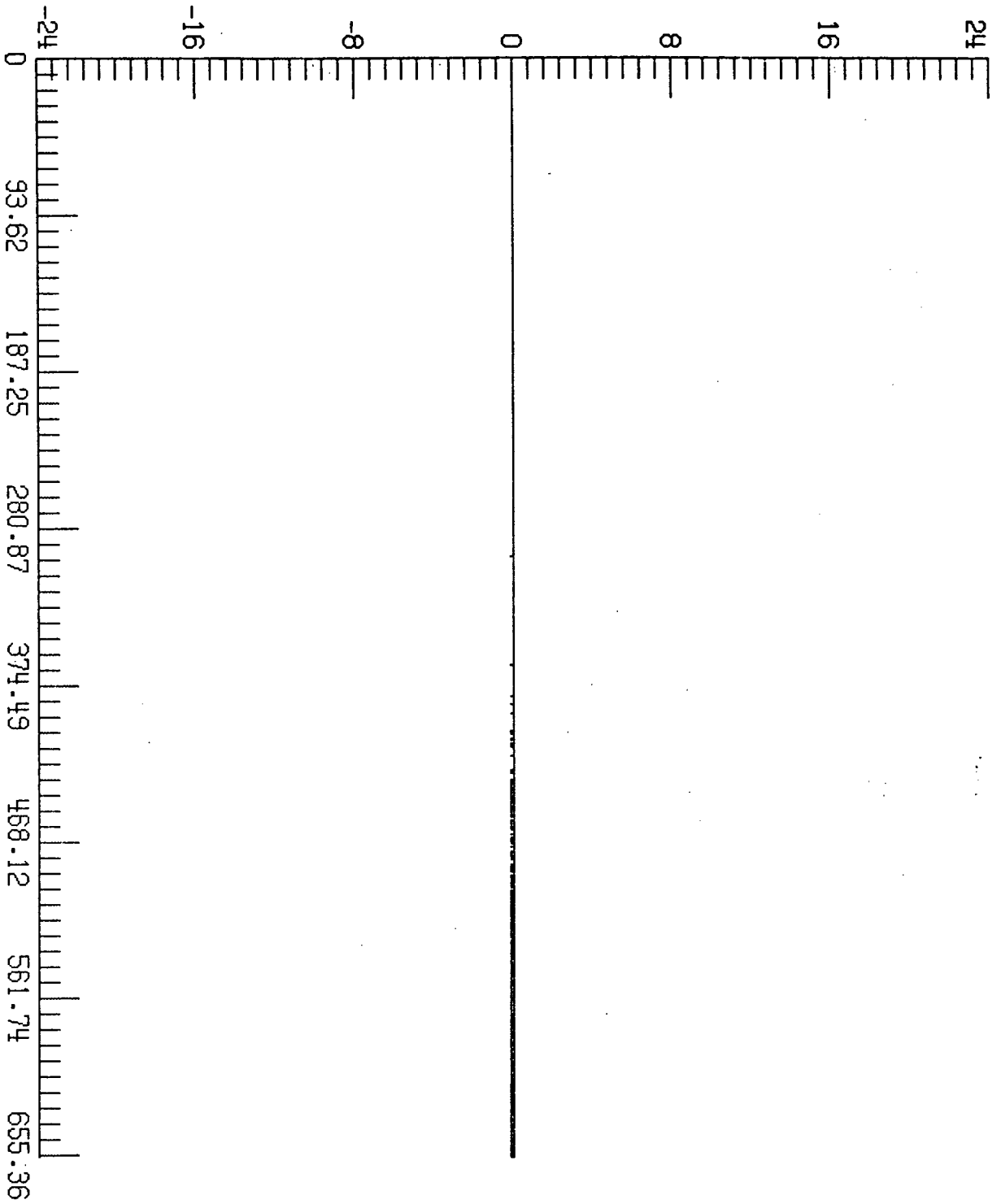
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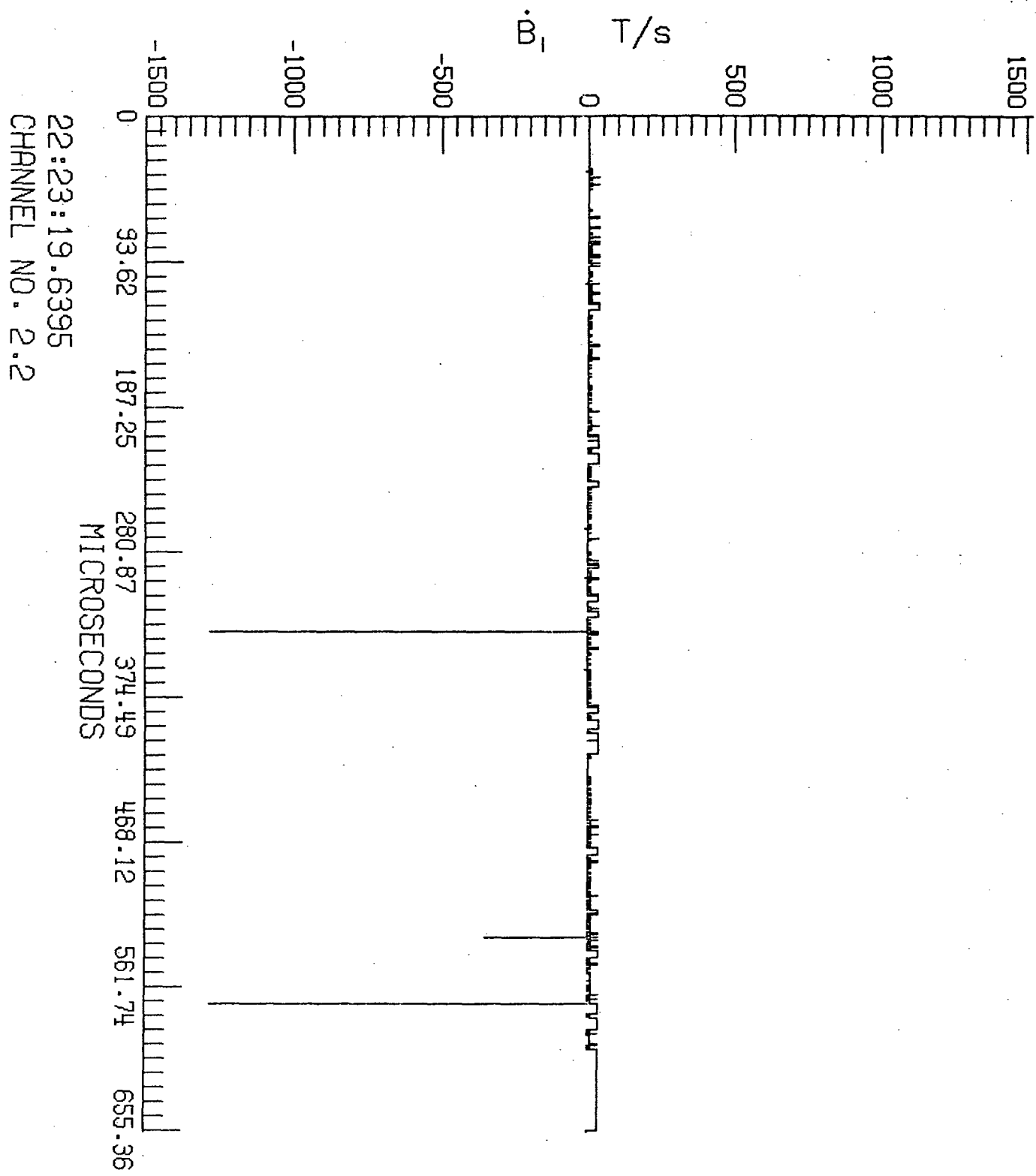


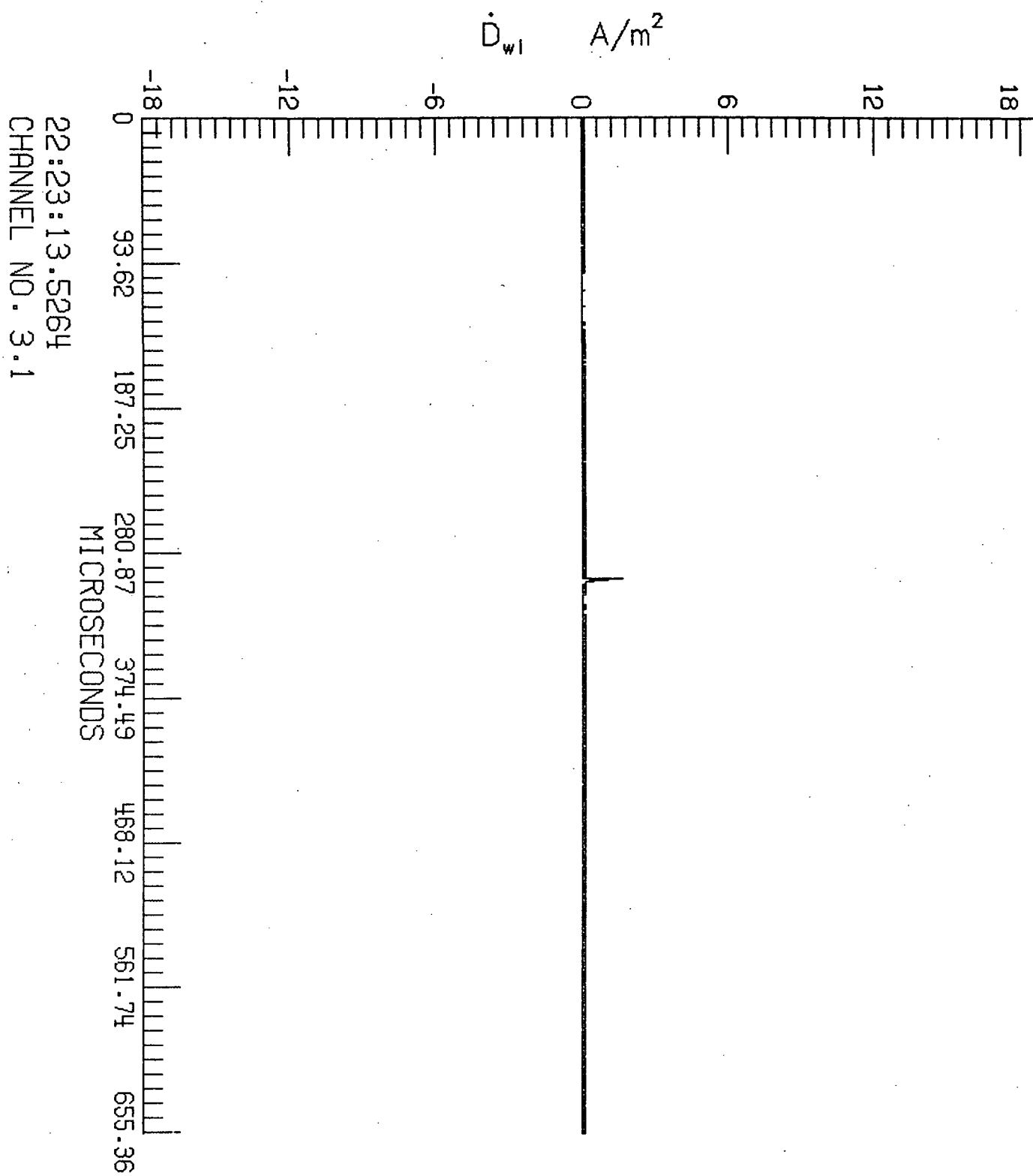
I A/s

$\times 10^{10}$



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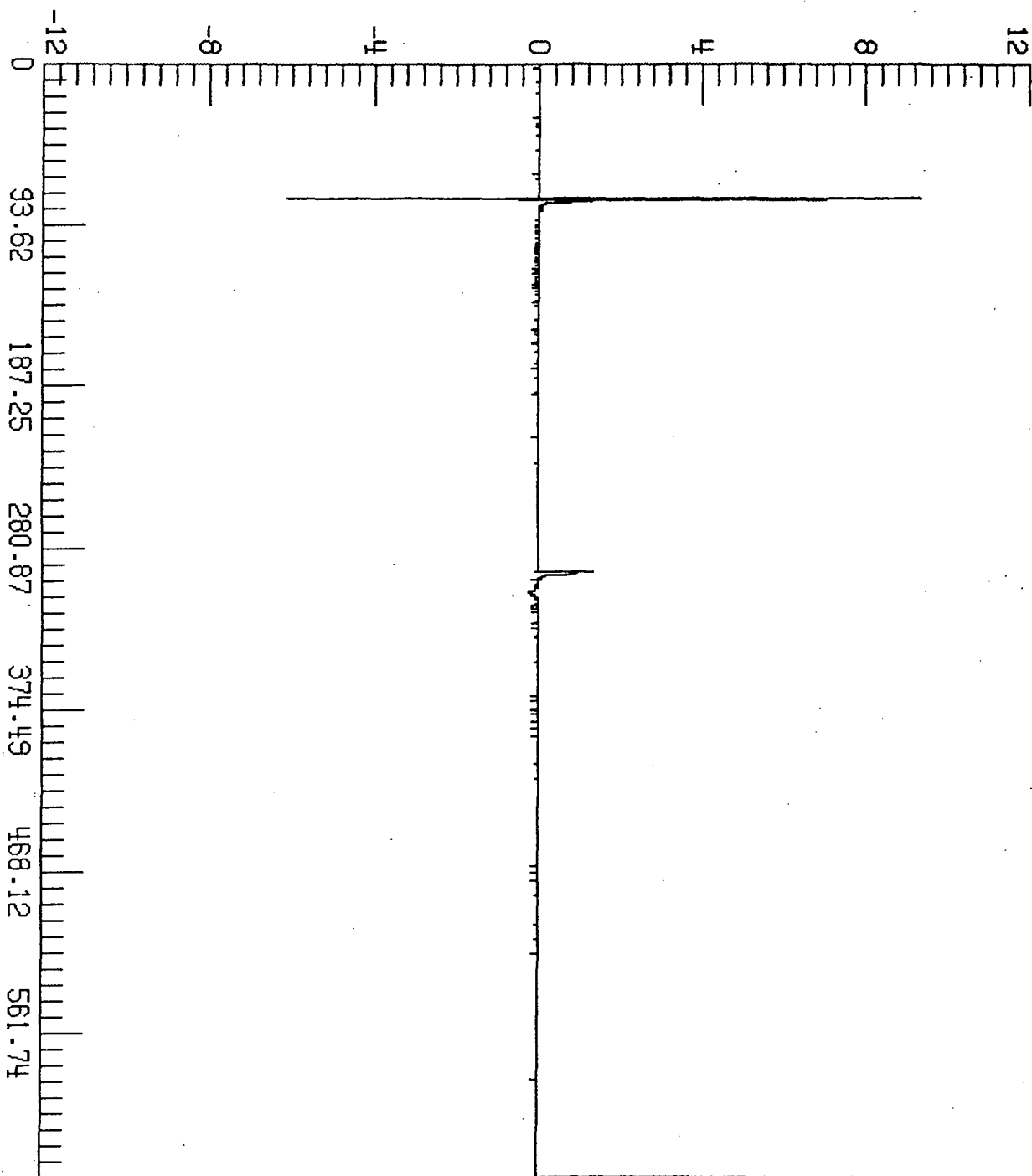




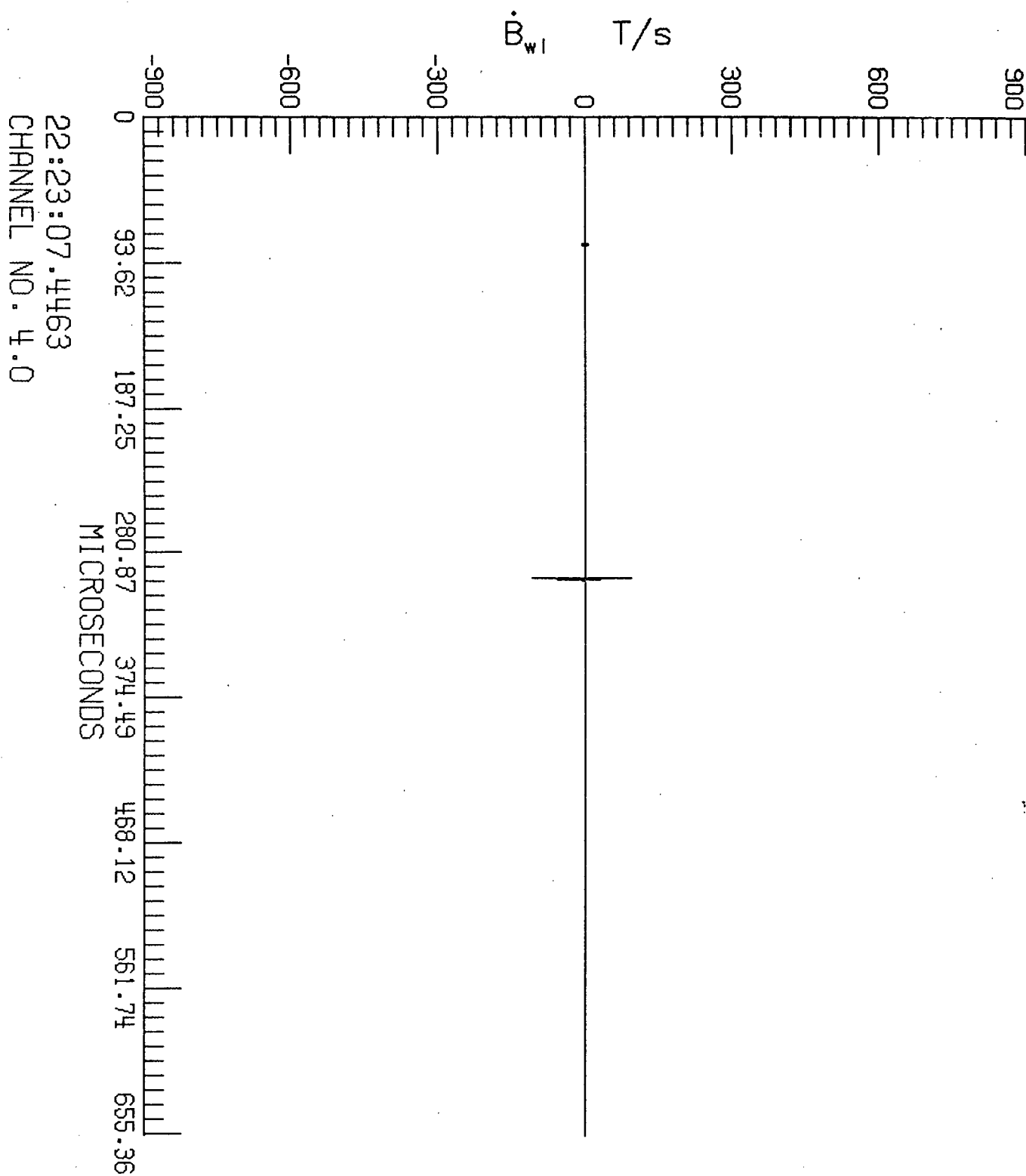
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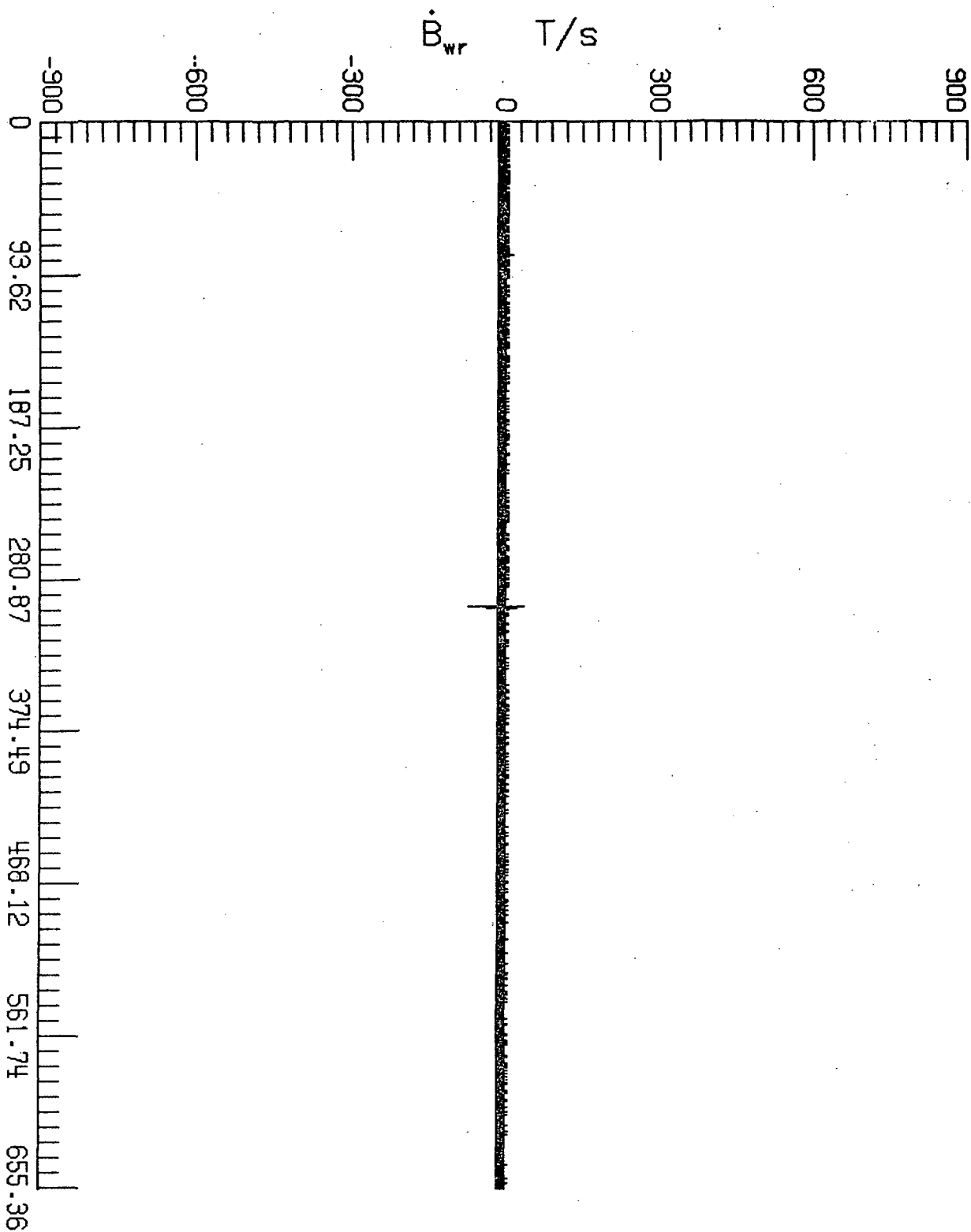
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\dot{D}_f A/m²

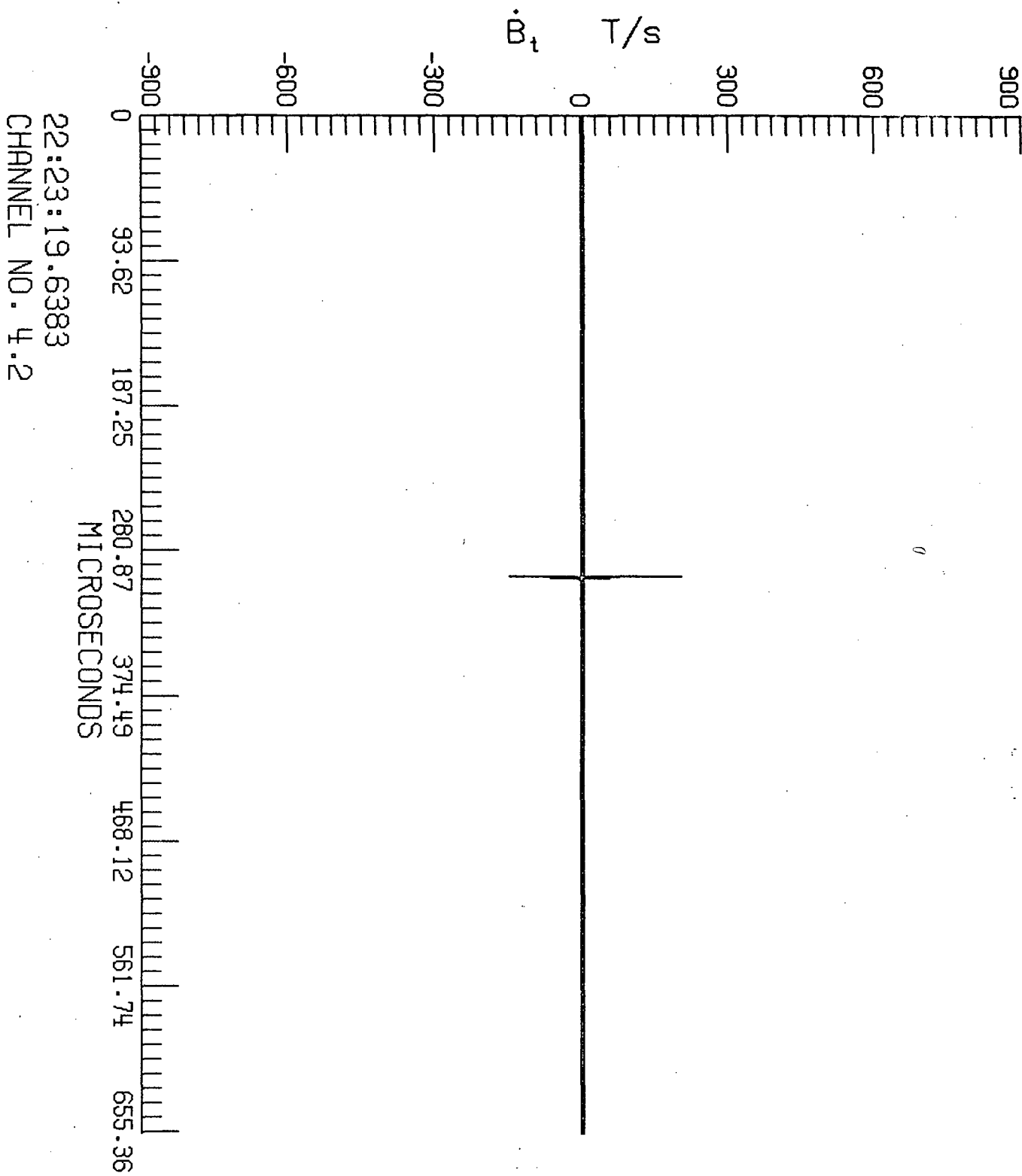


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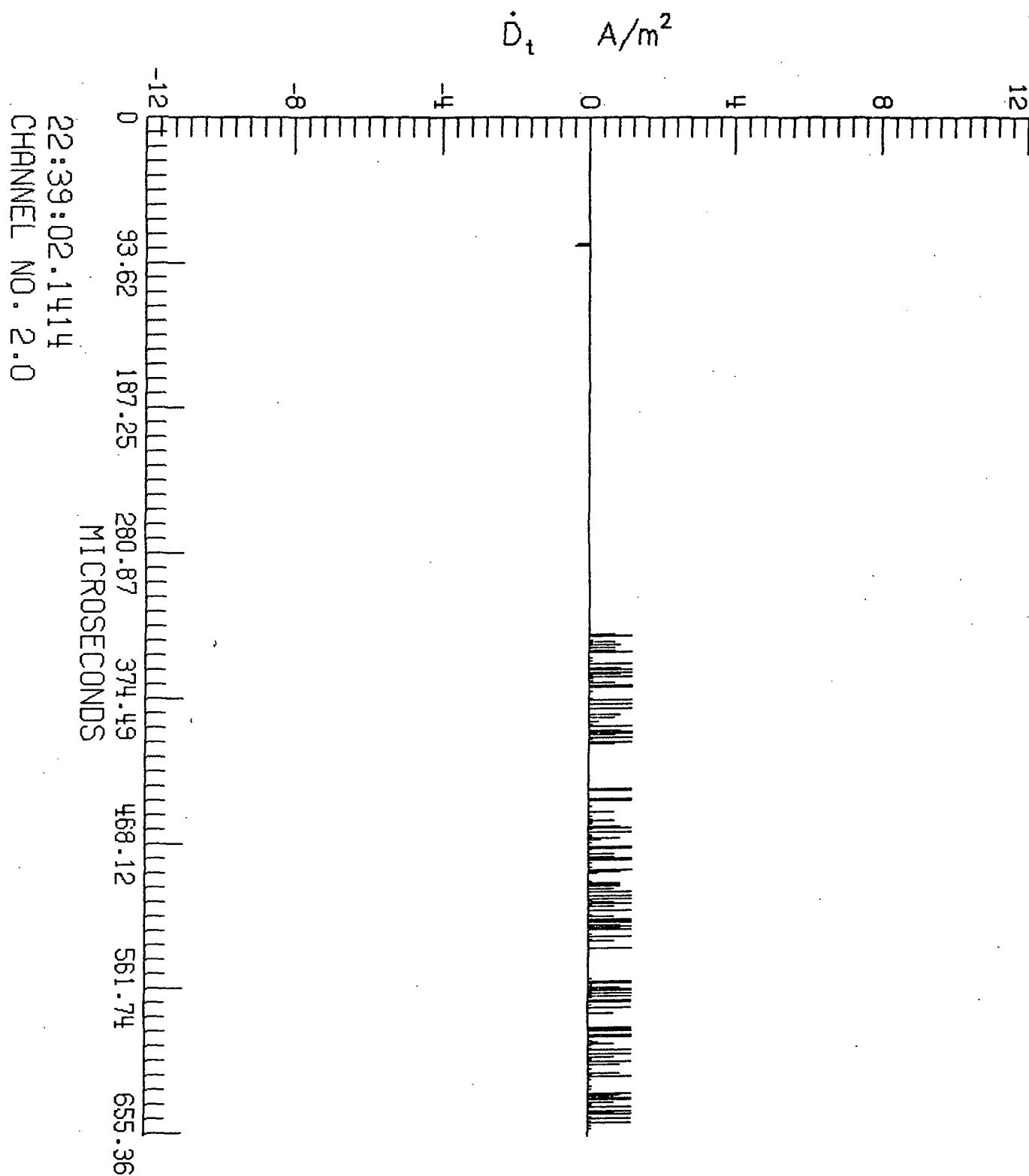


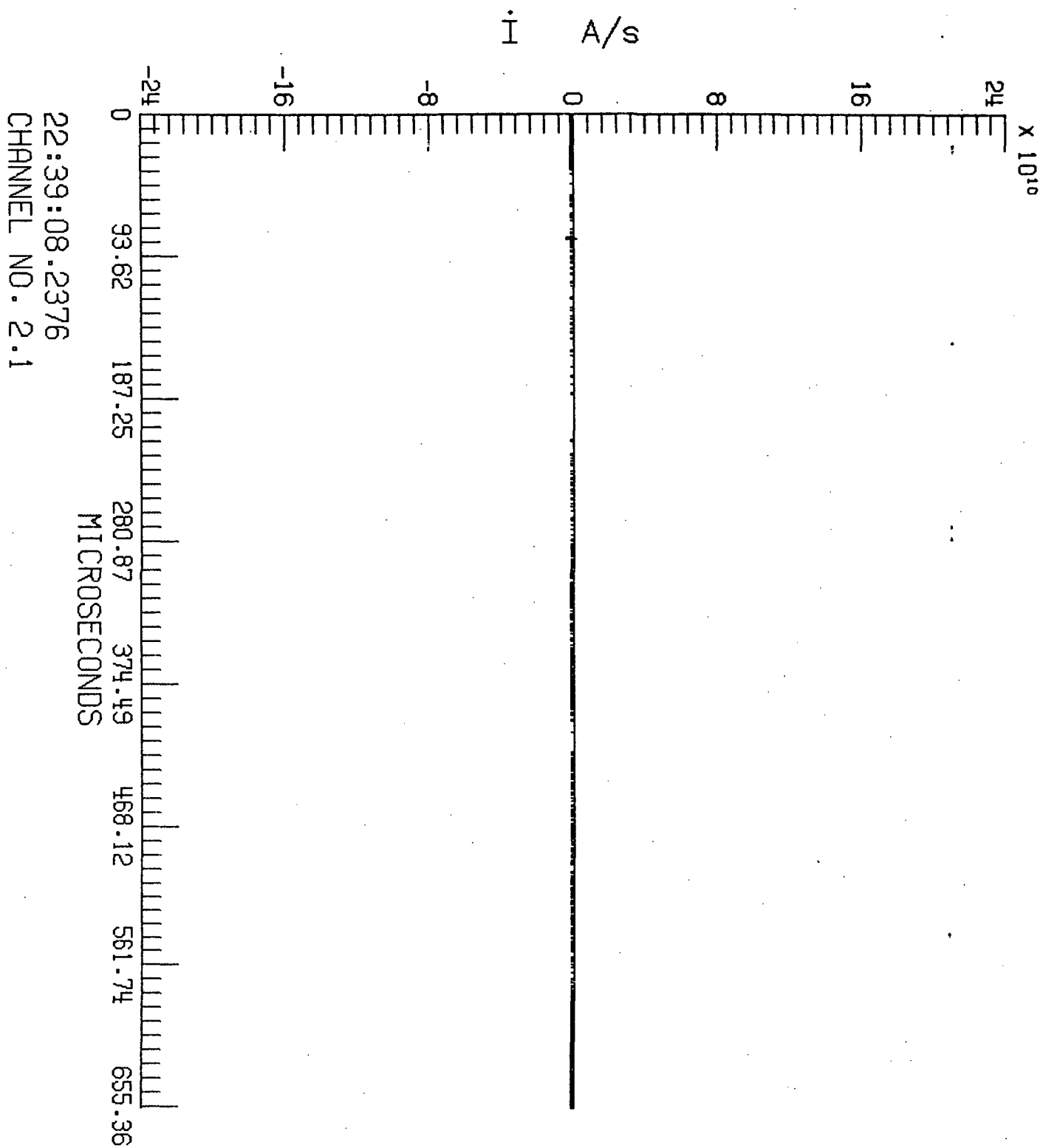
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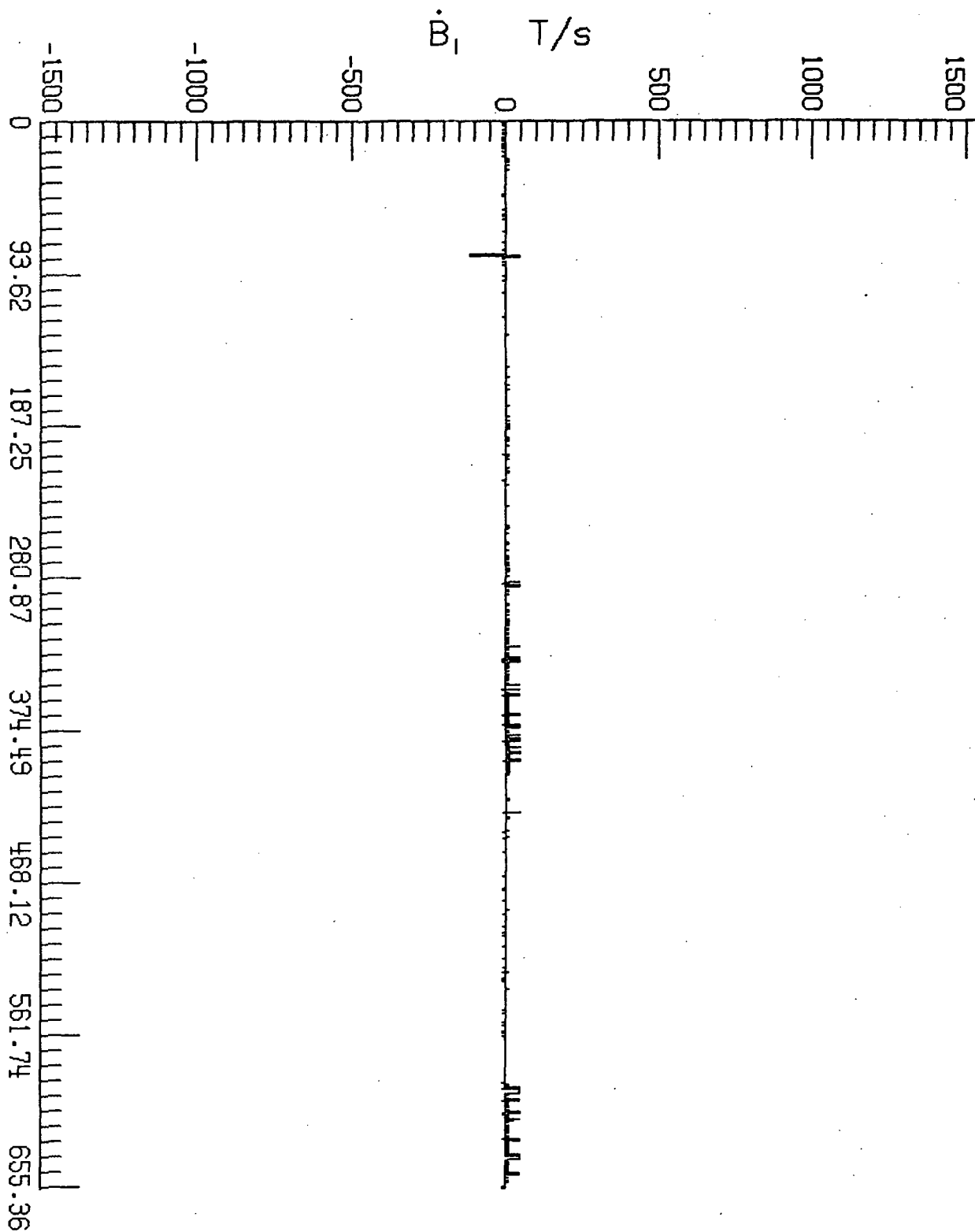


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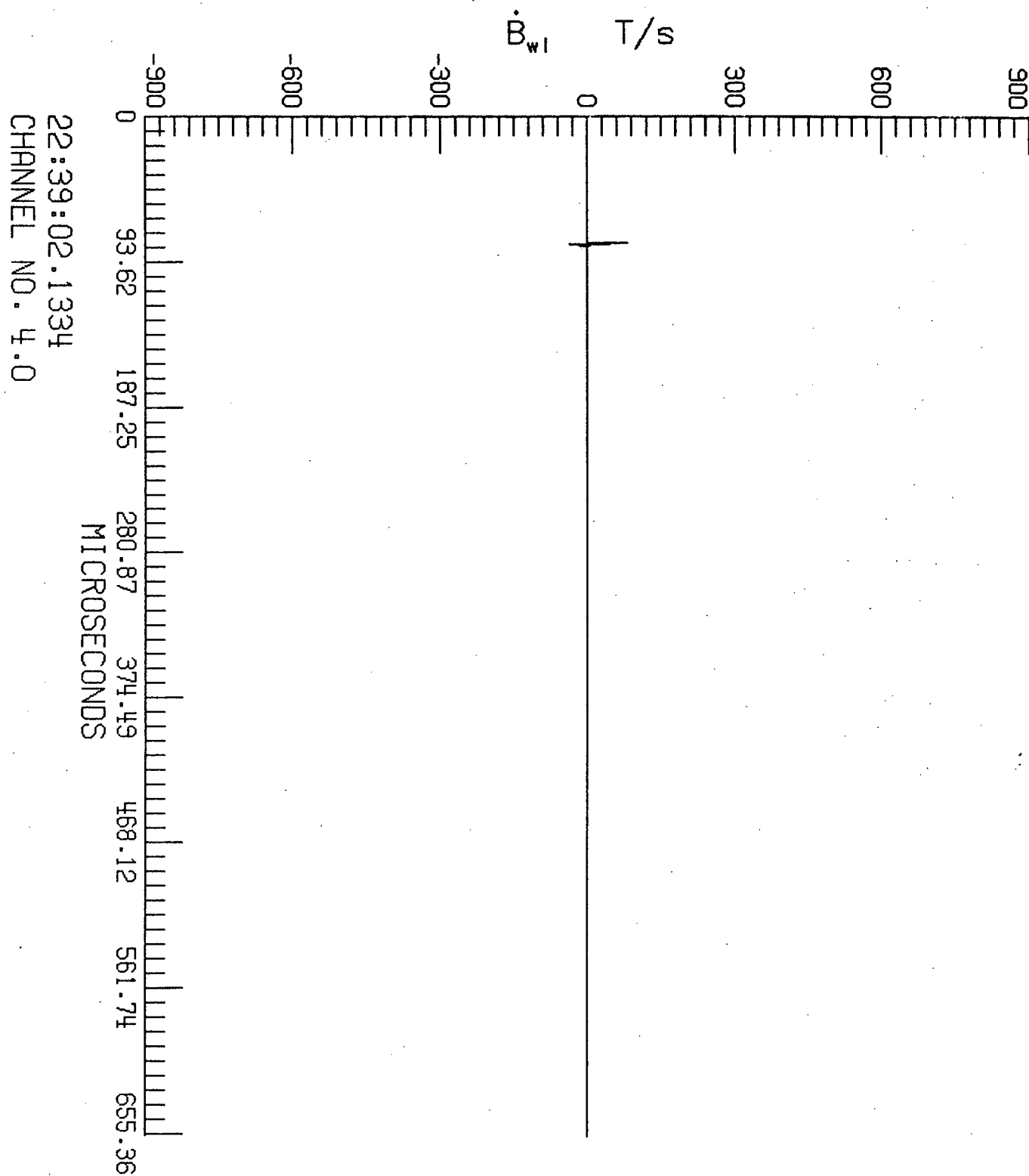




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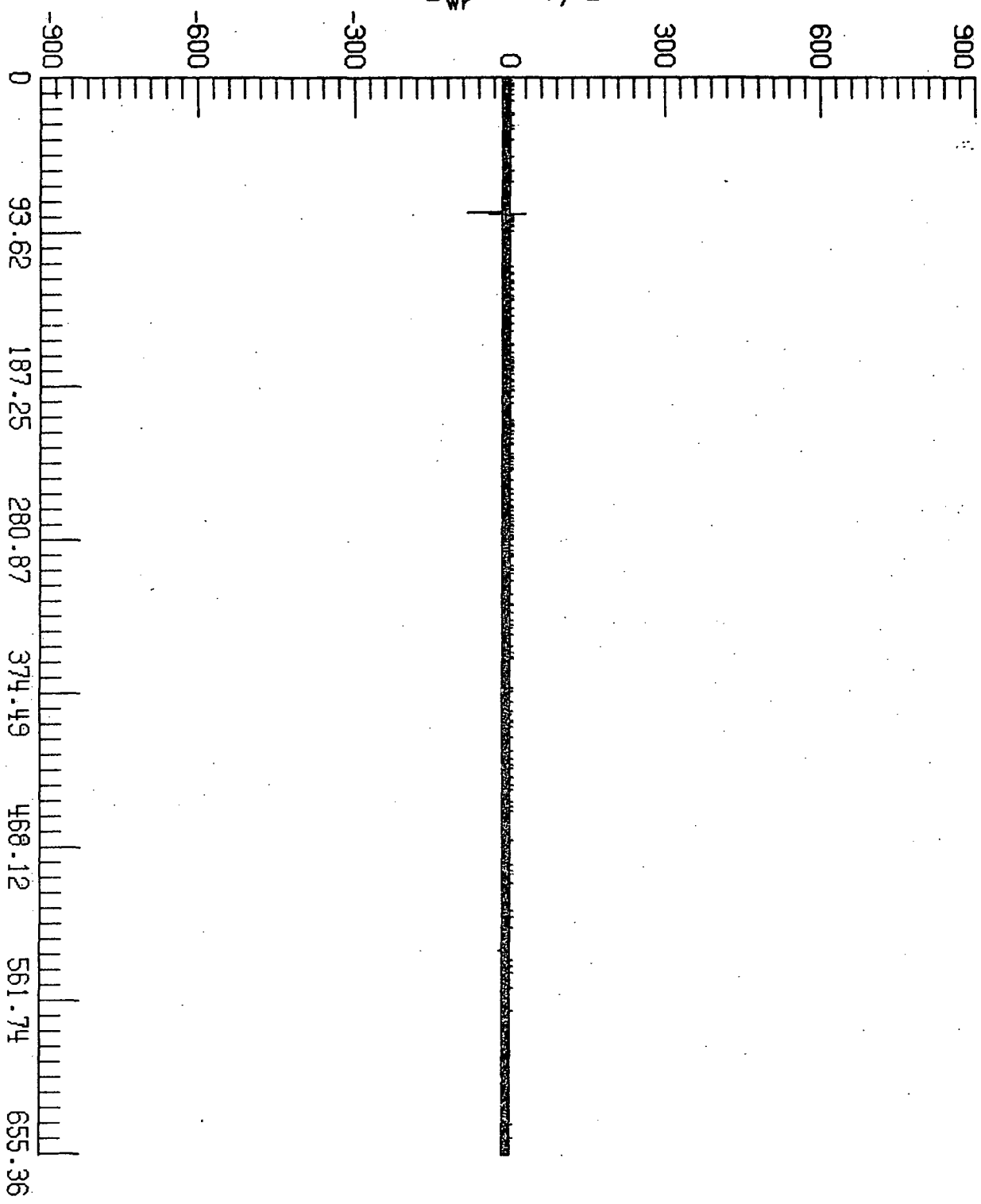
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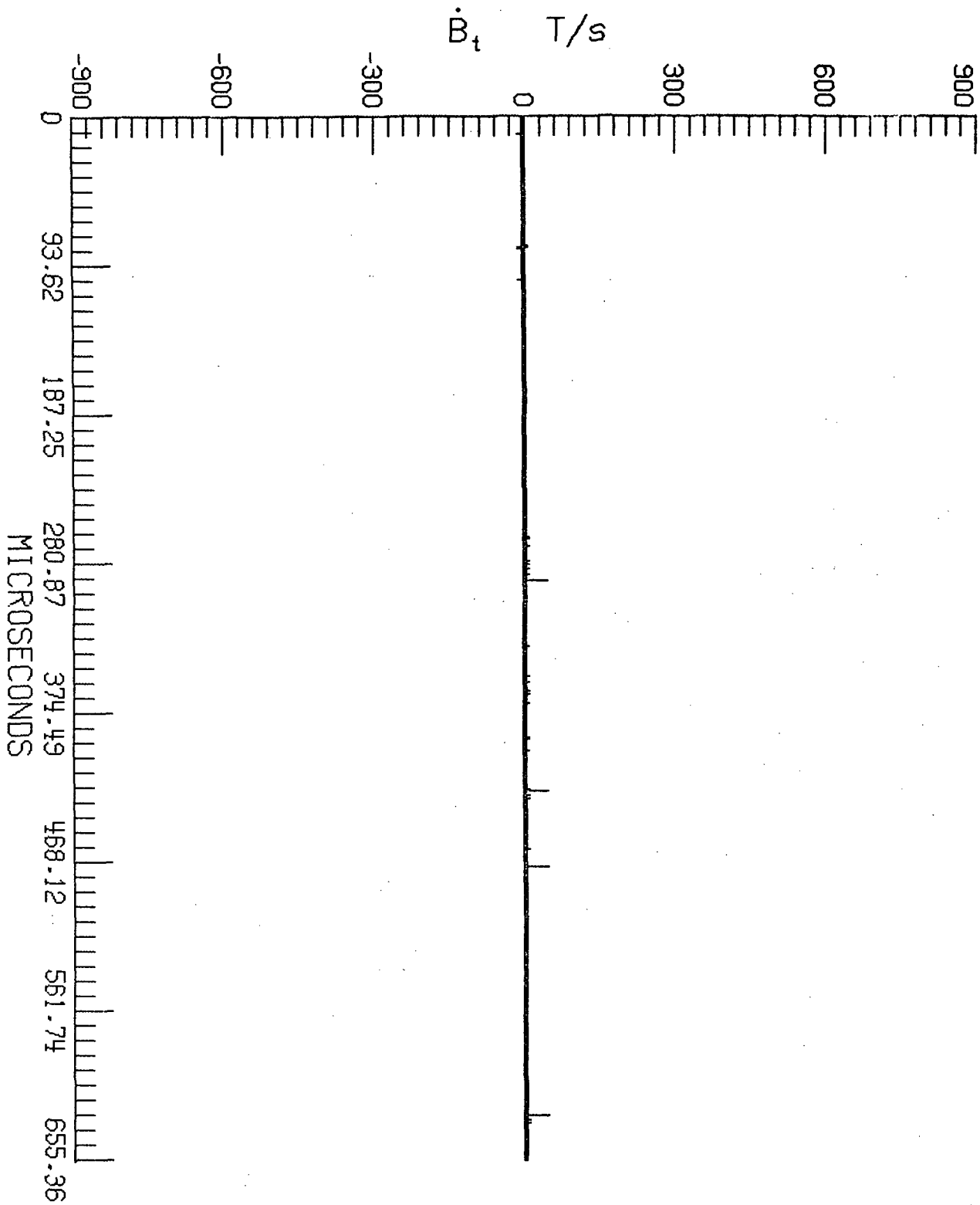
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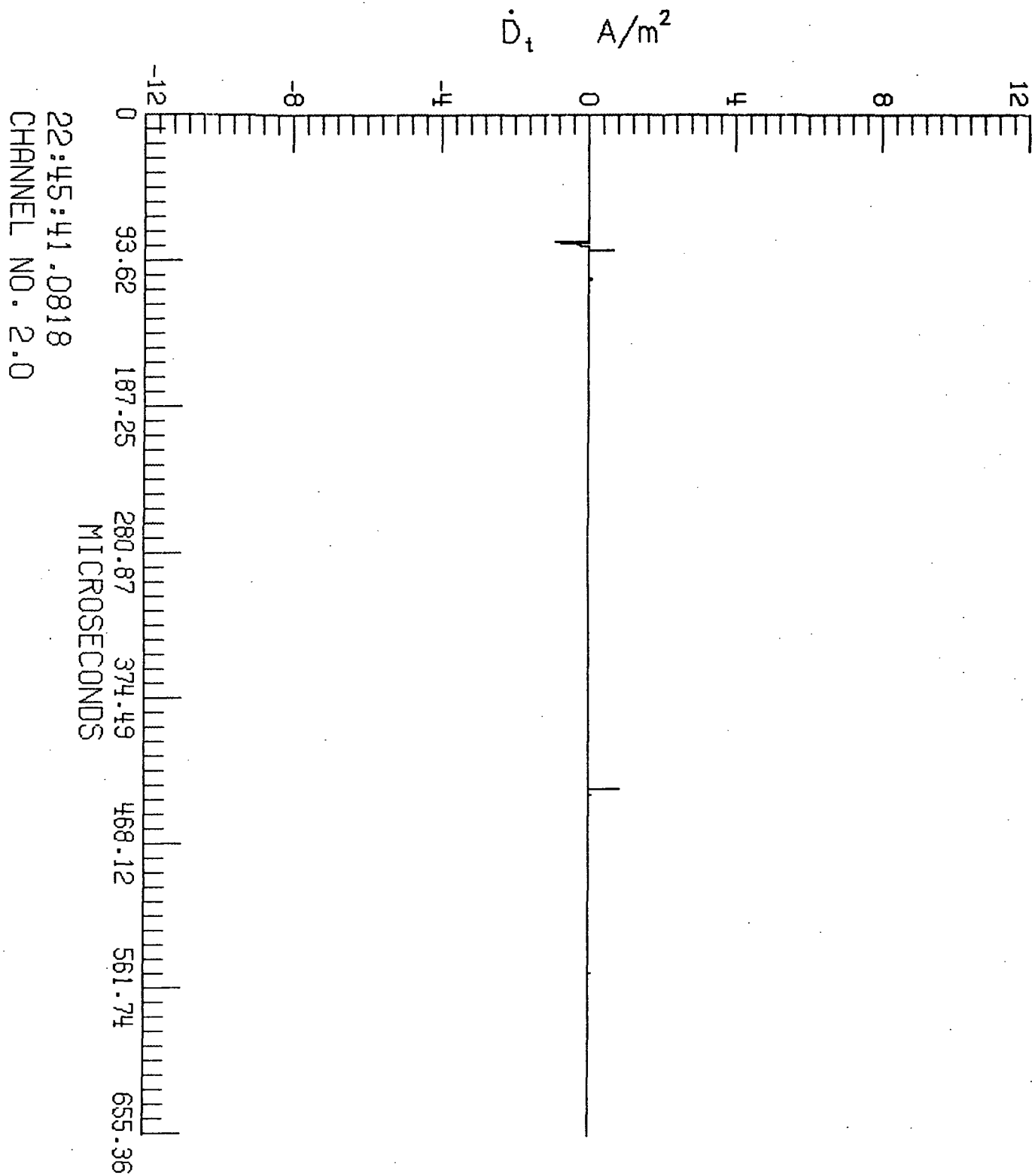
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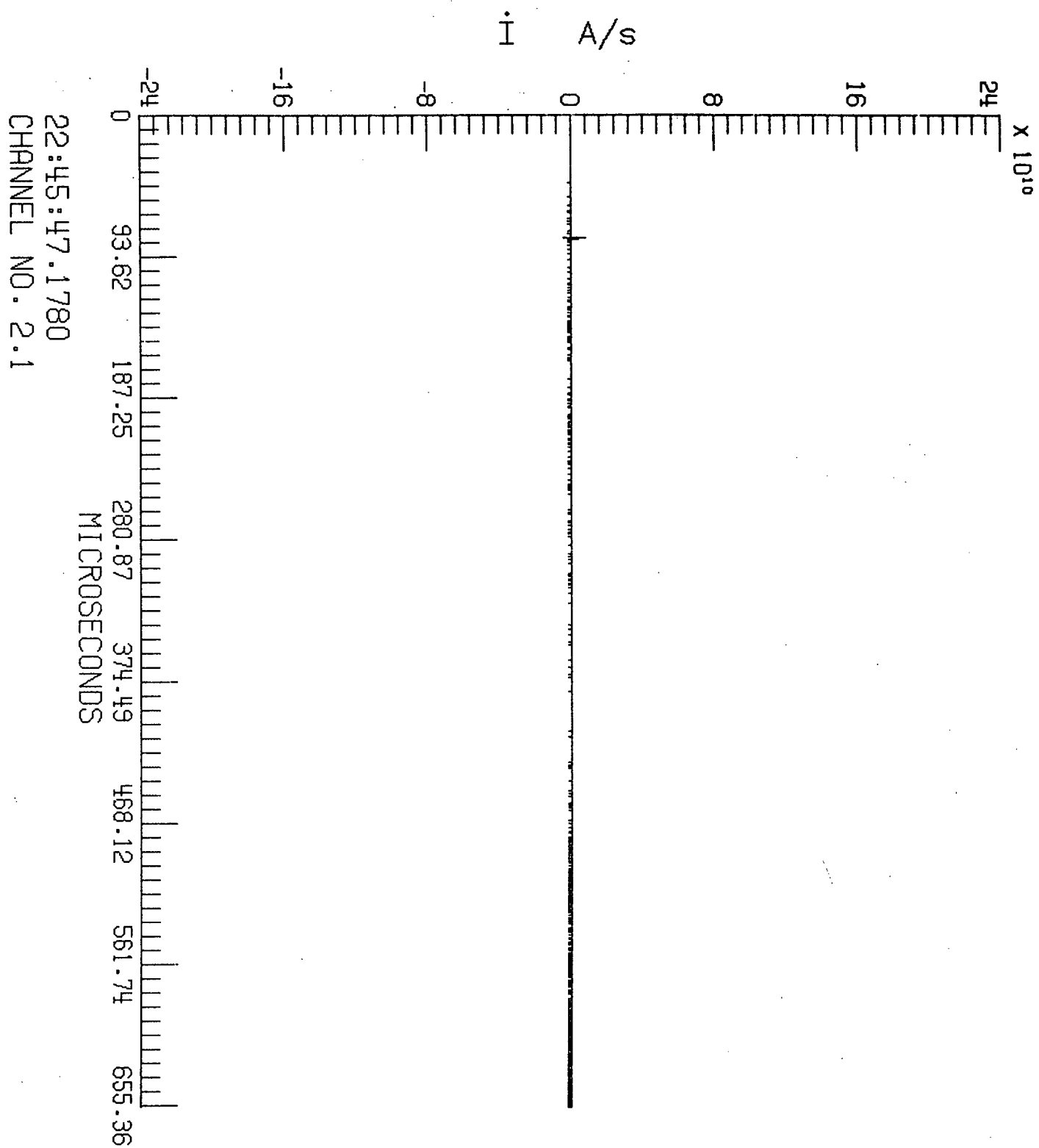
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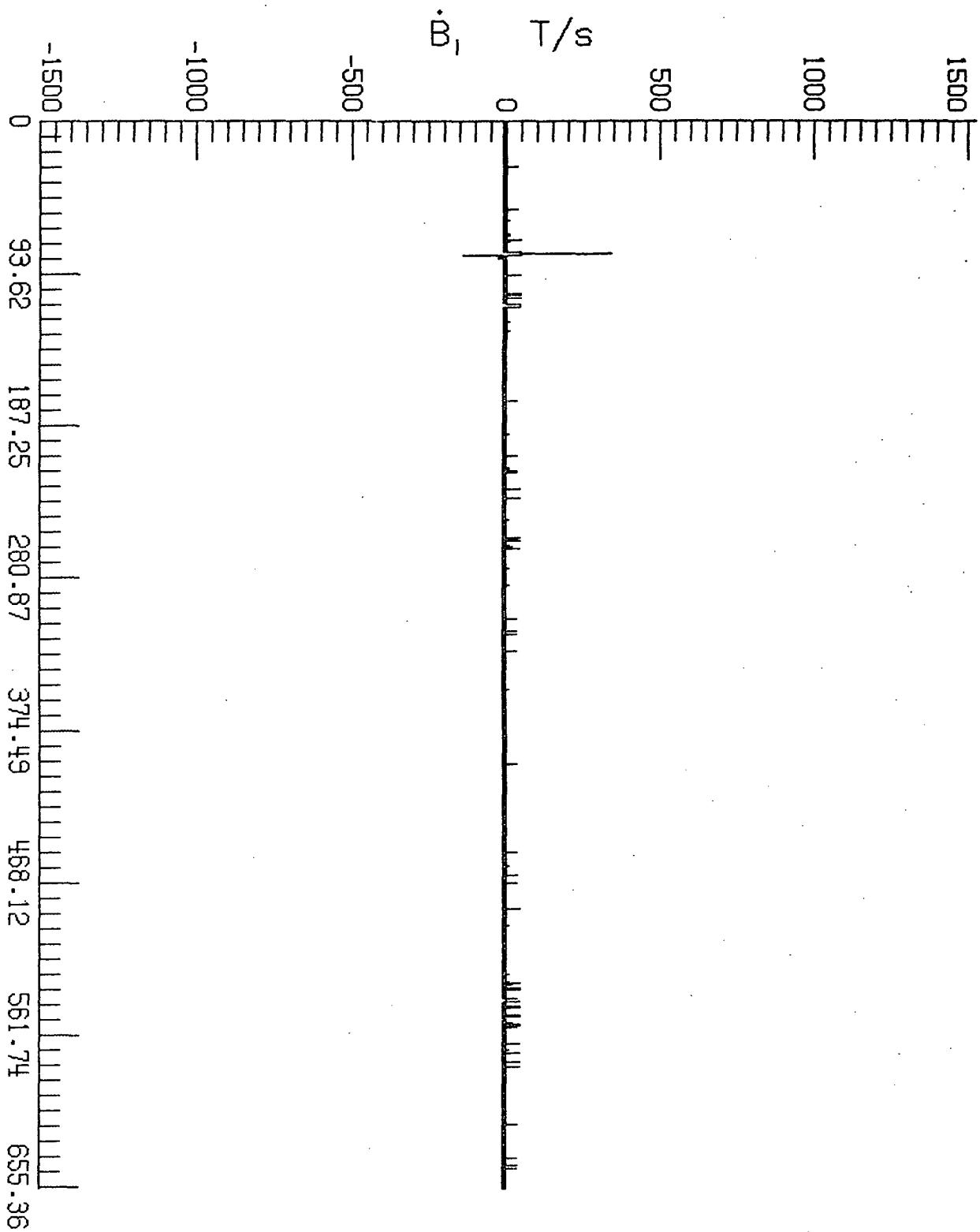




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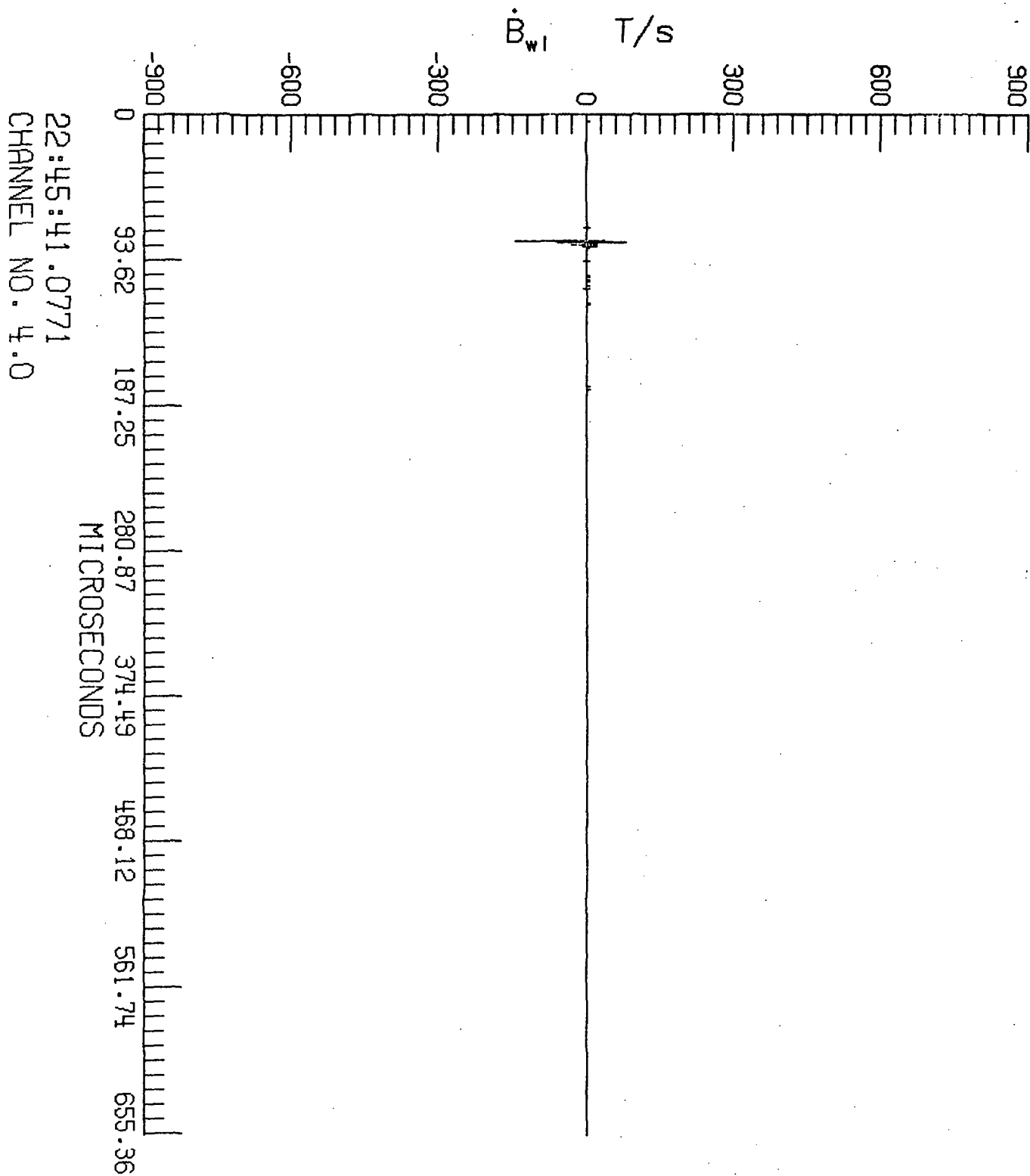


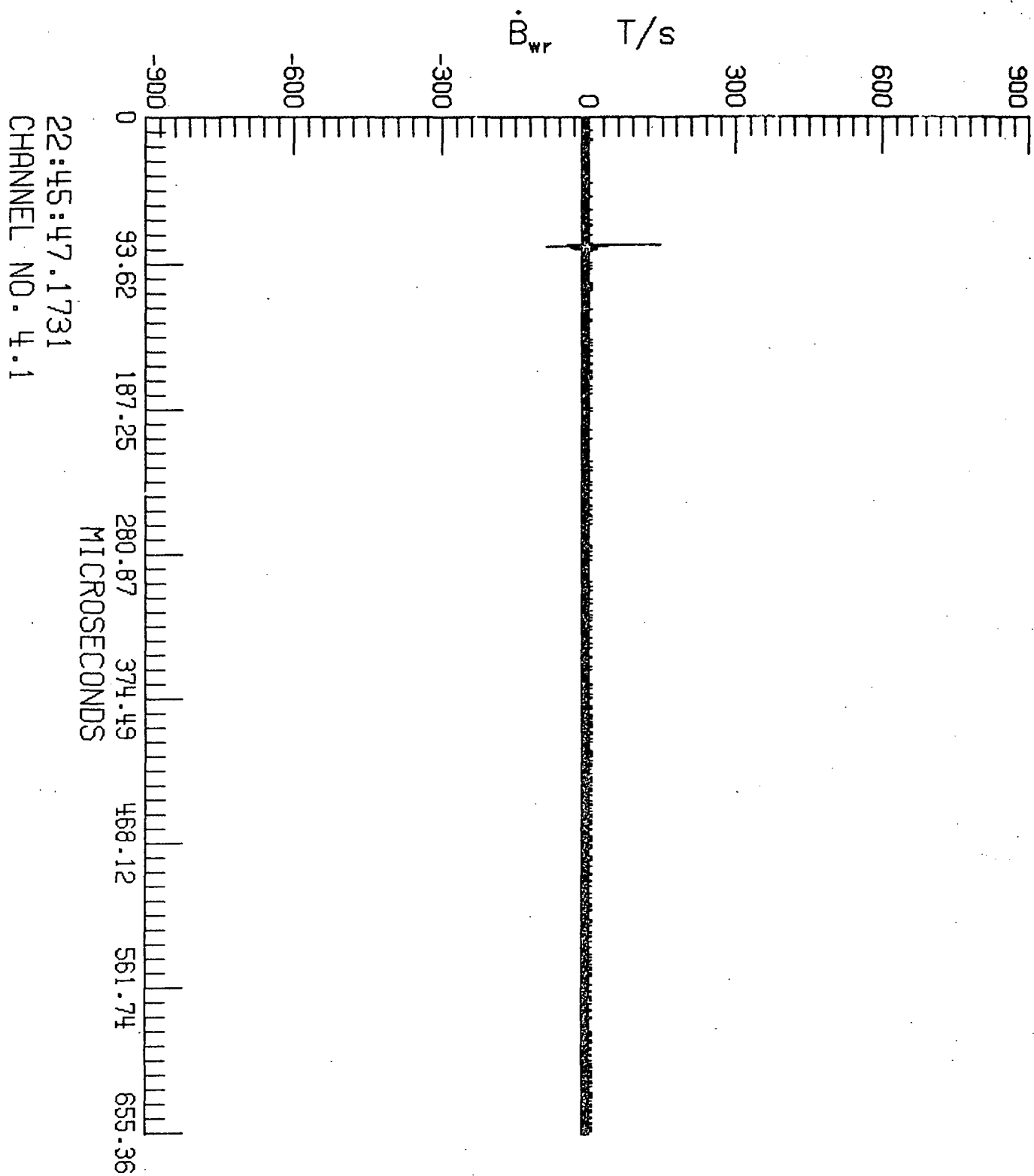


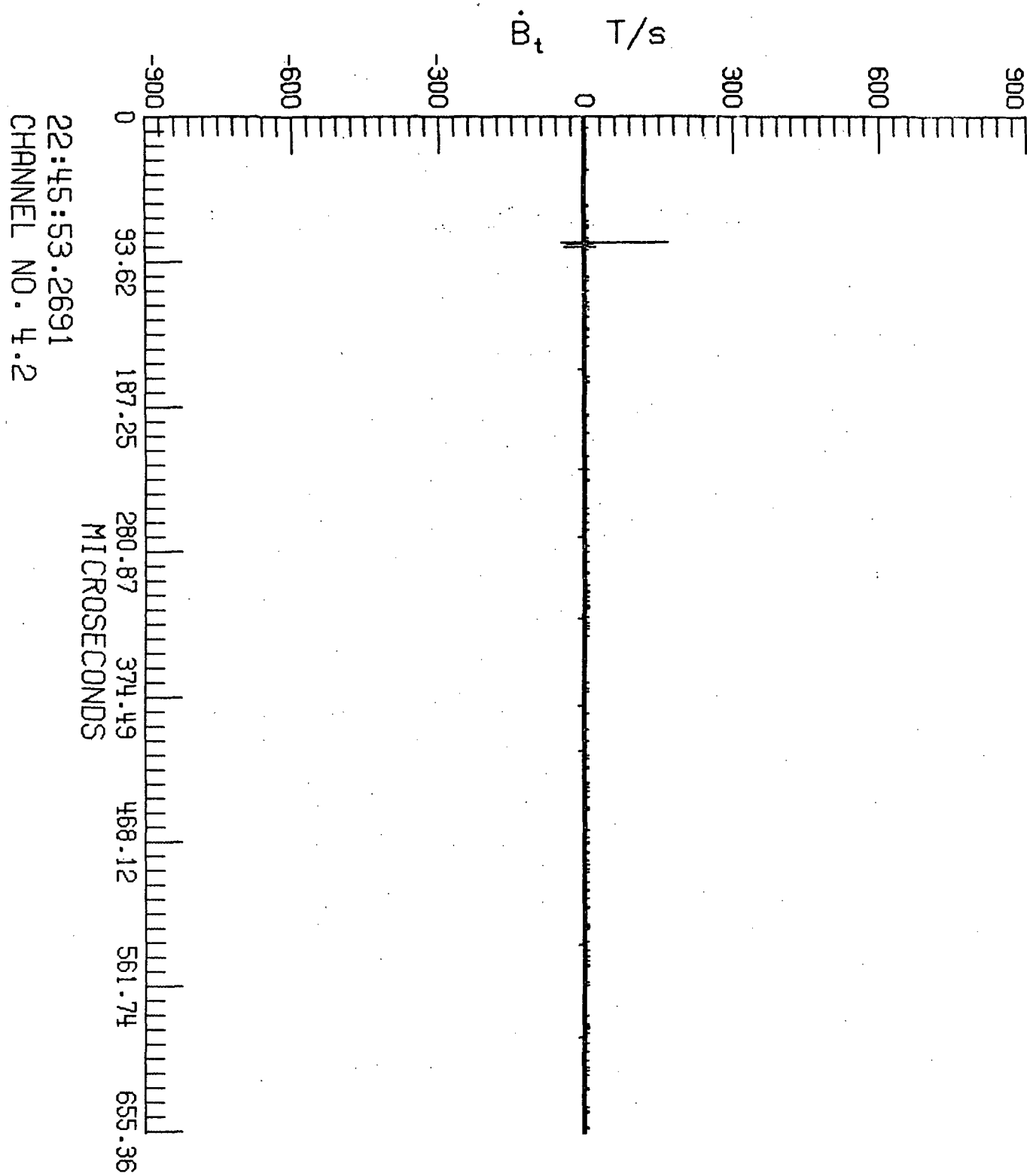
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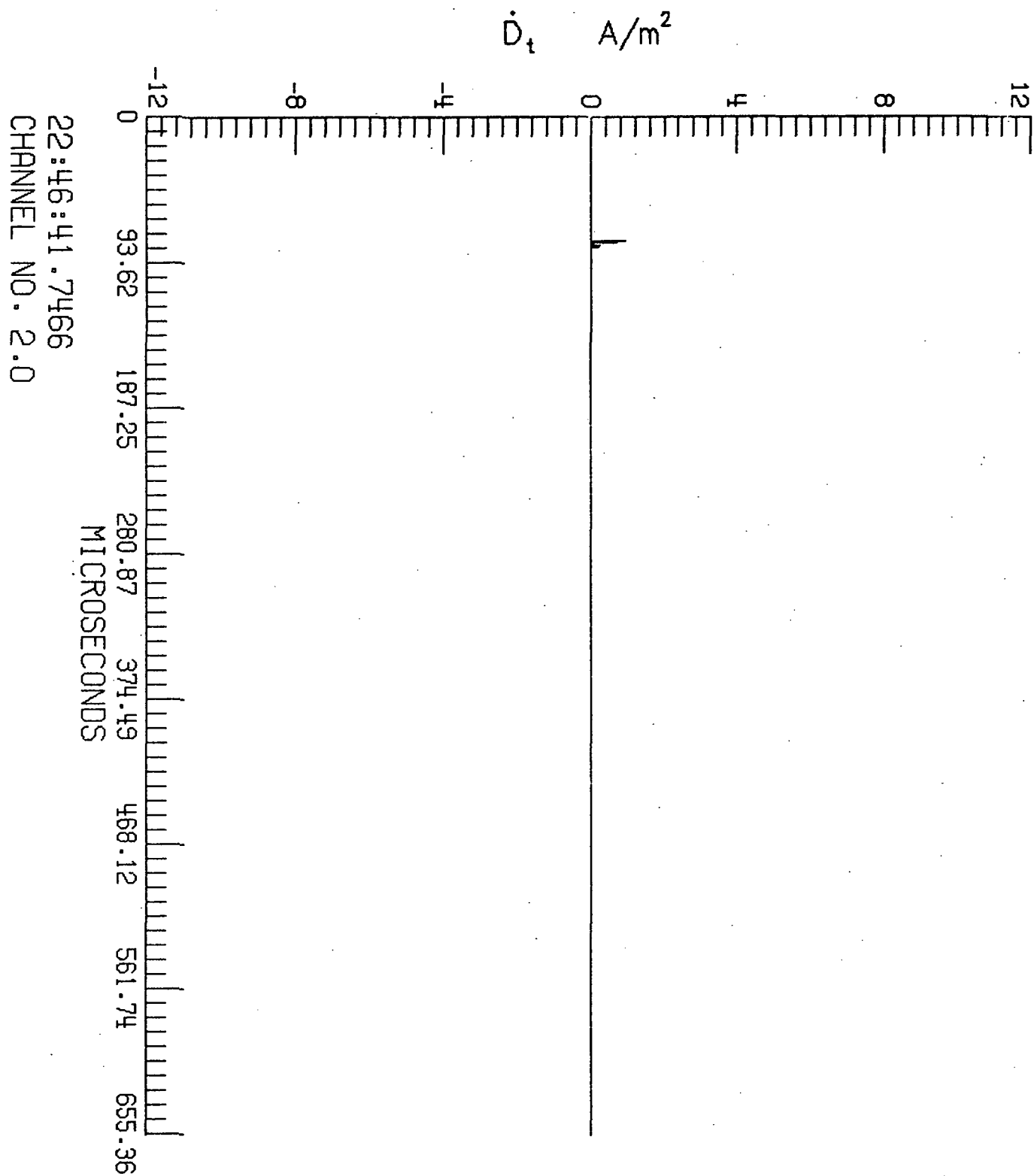


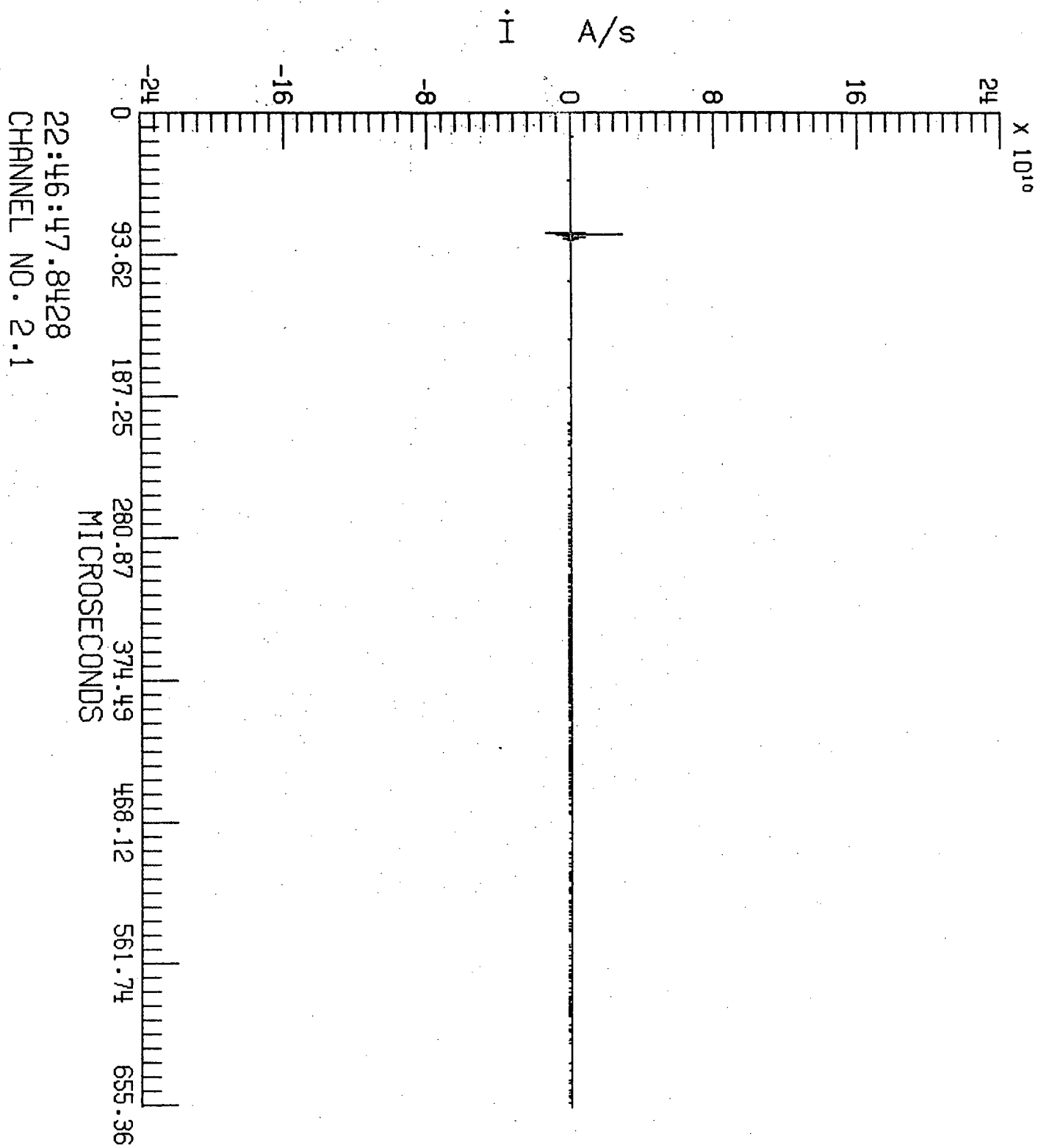


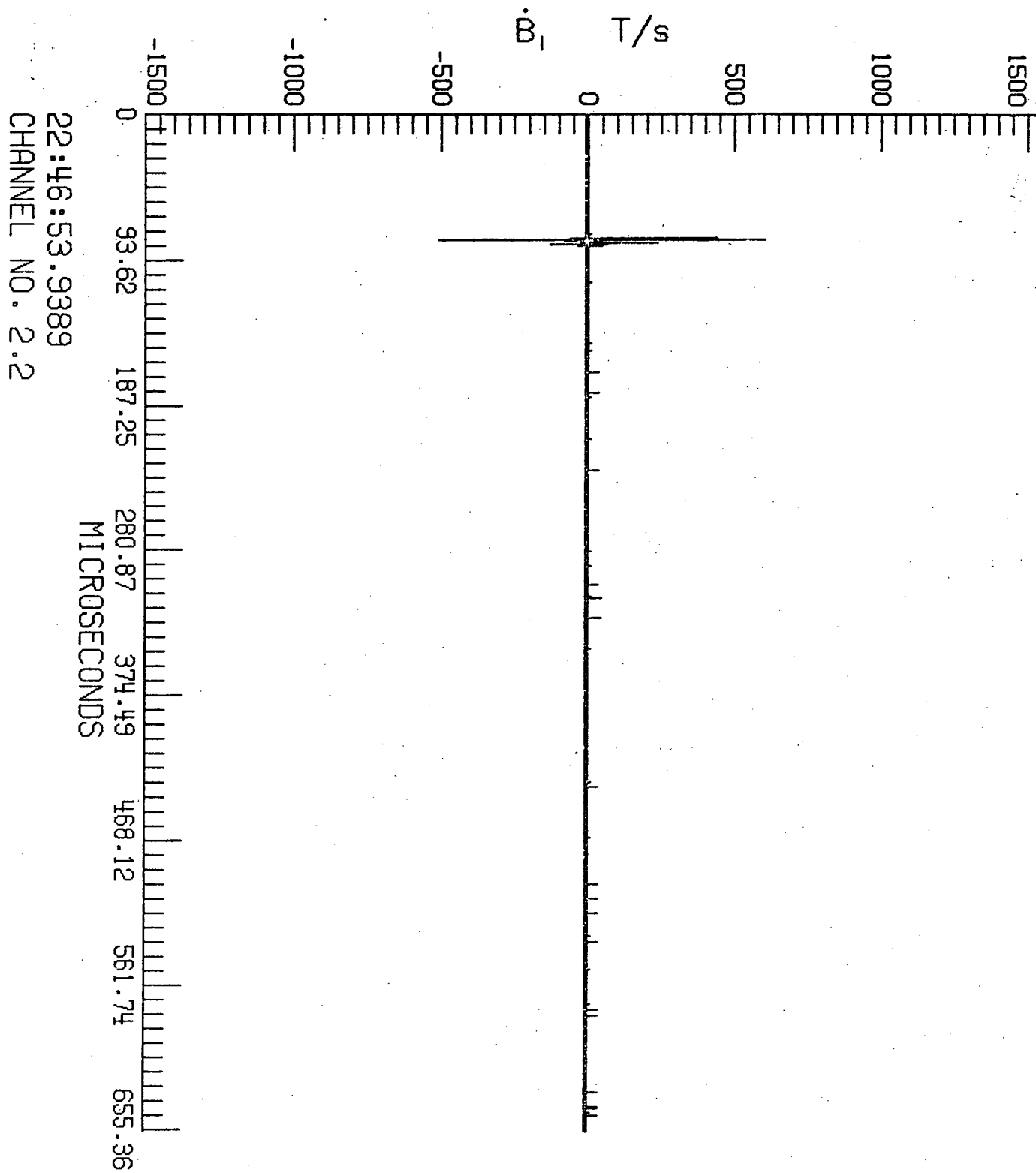


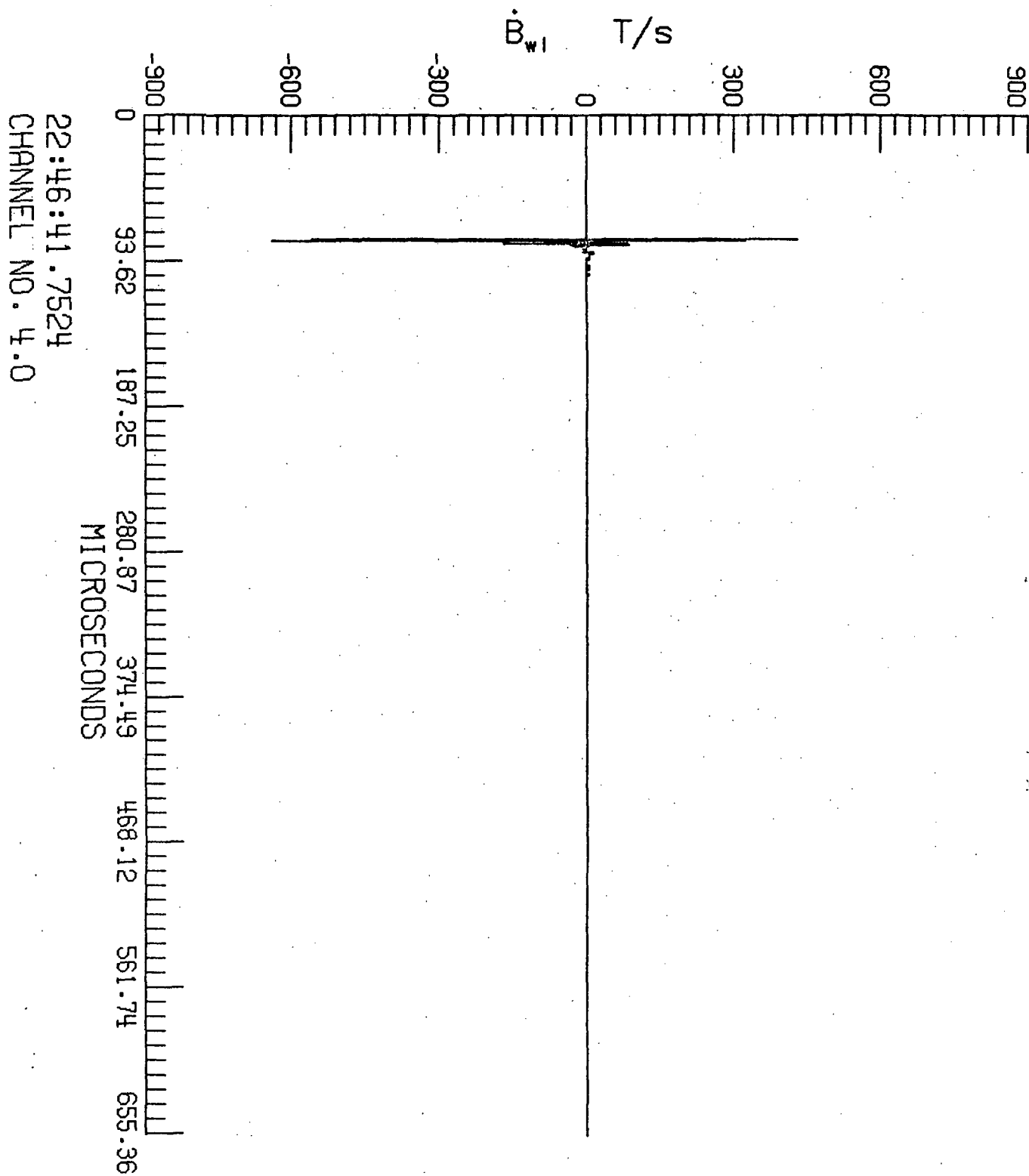
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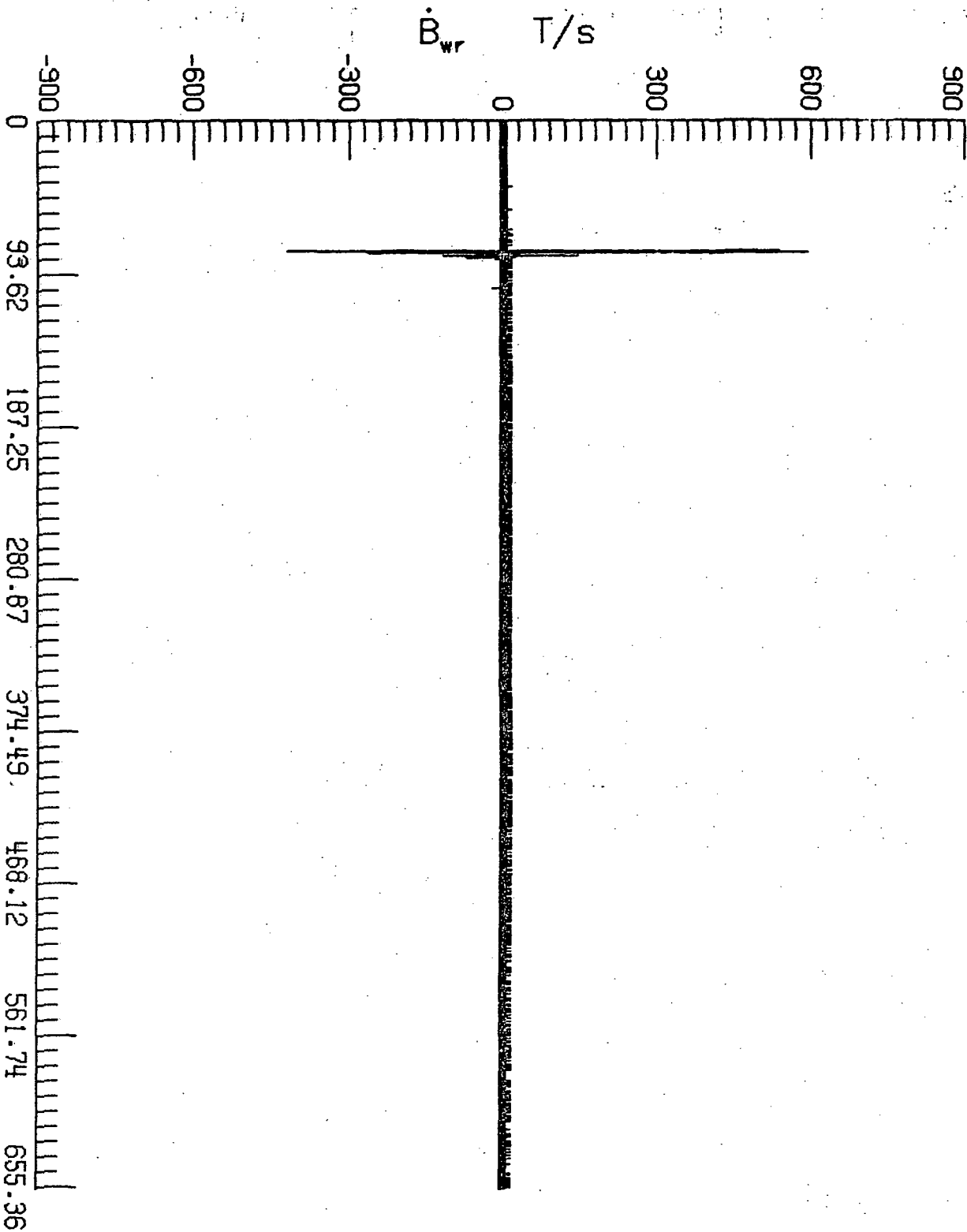
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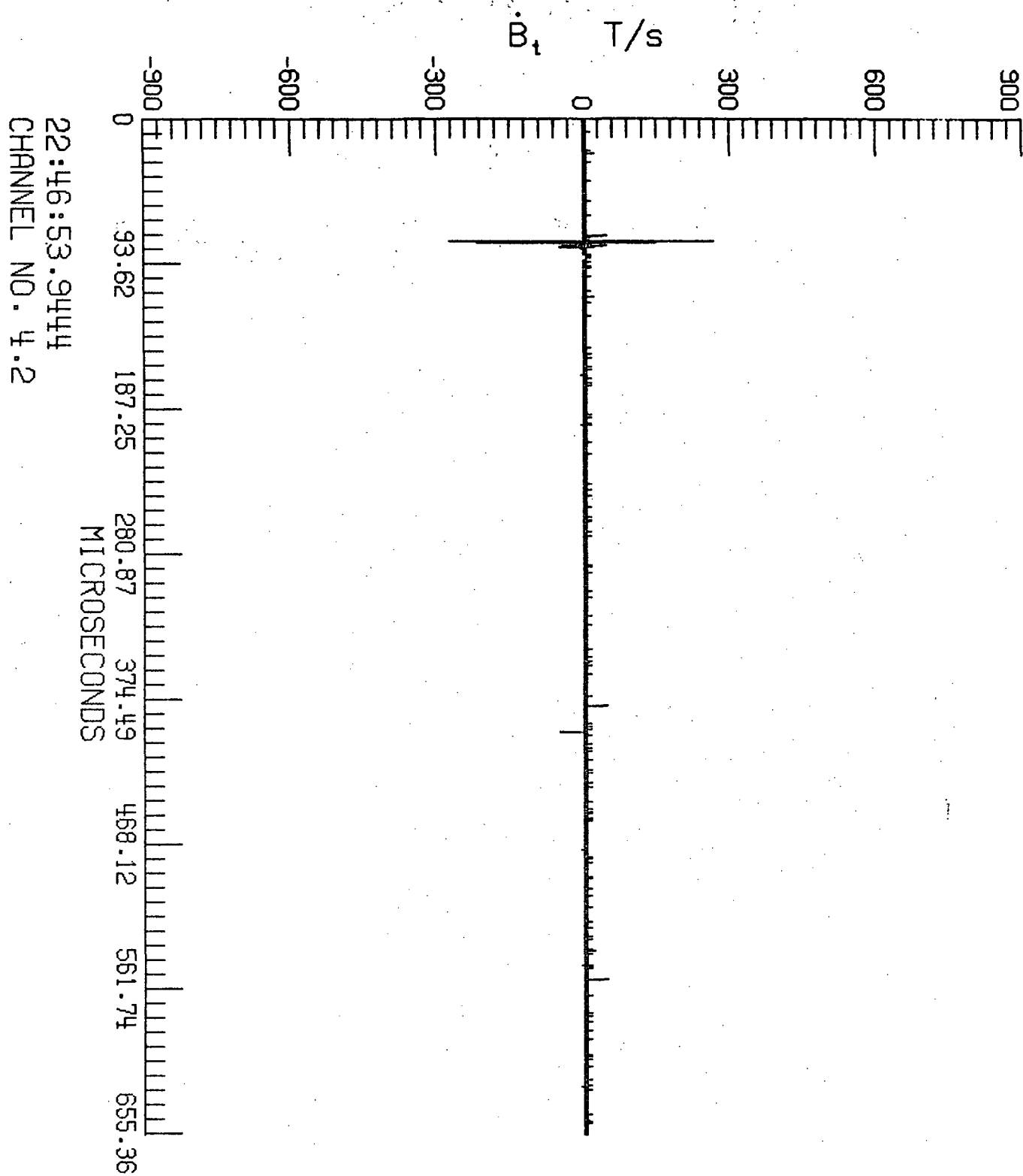








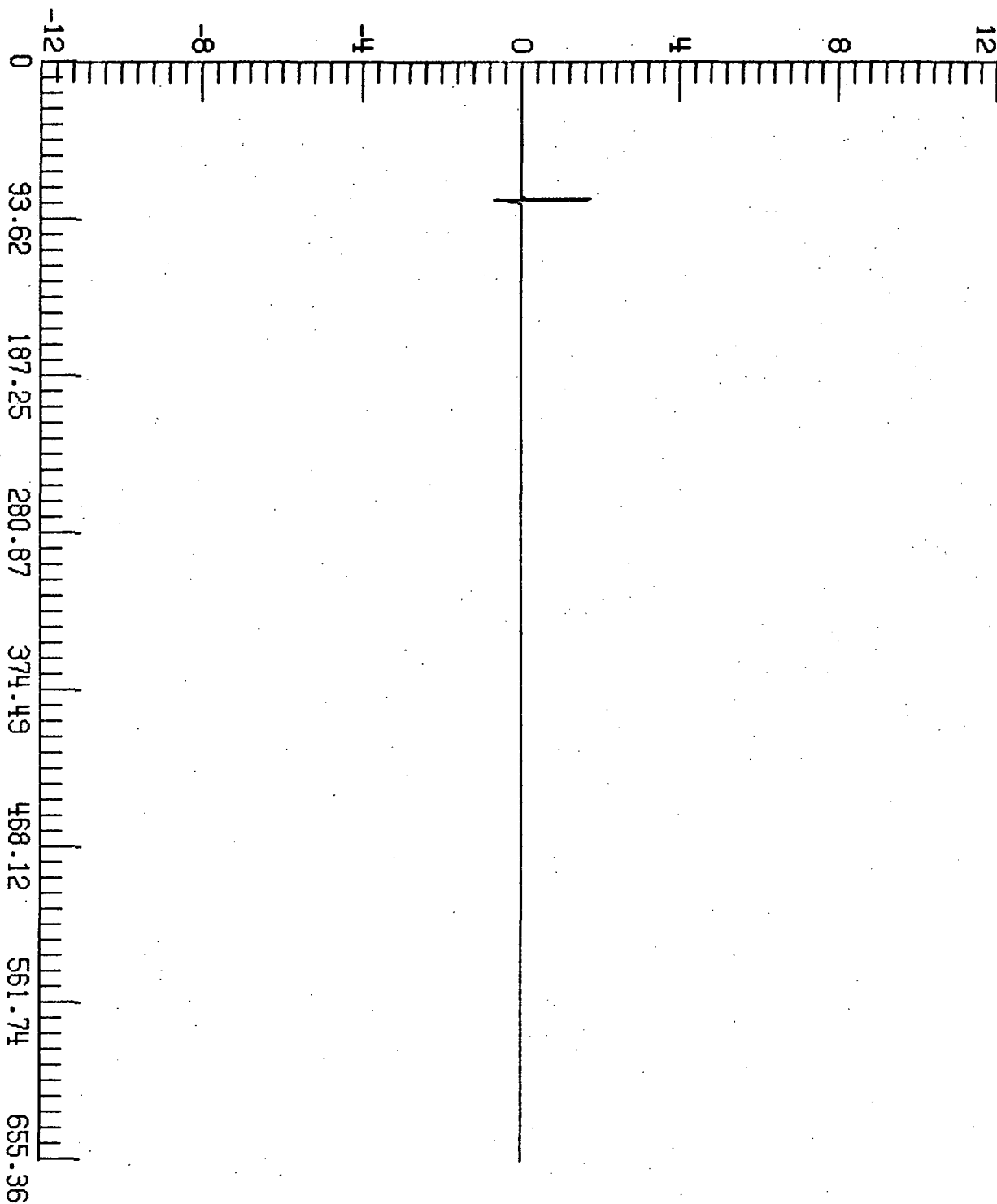
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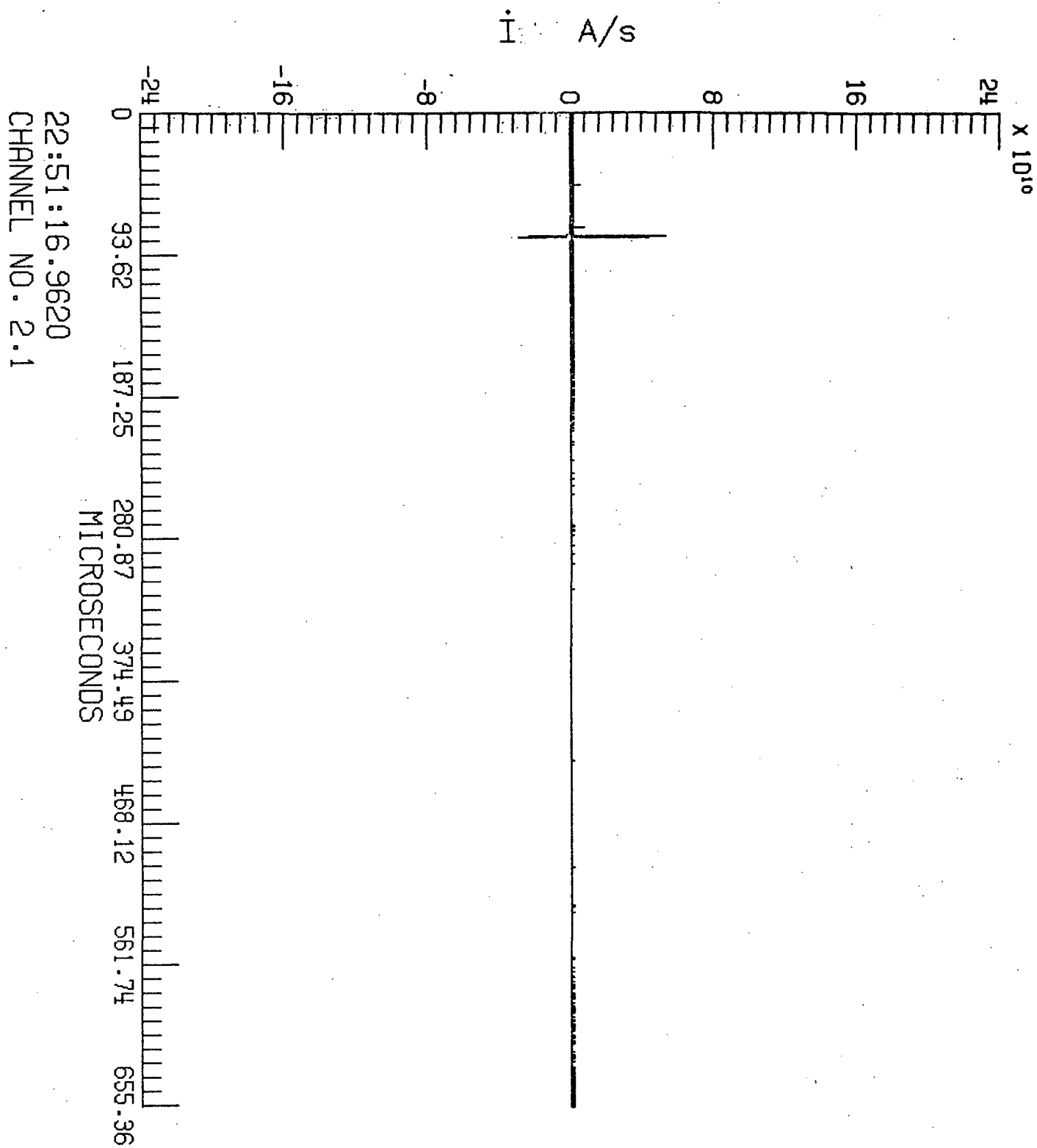
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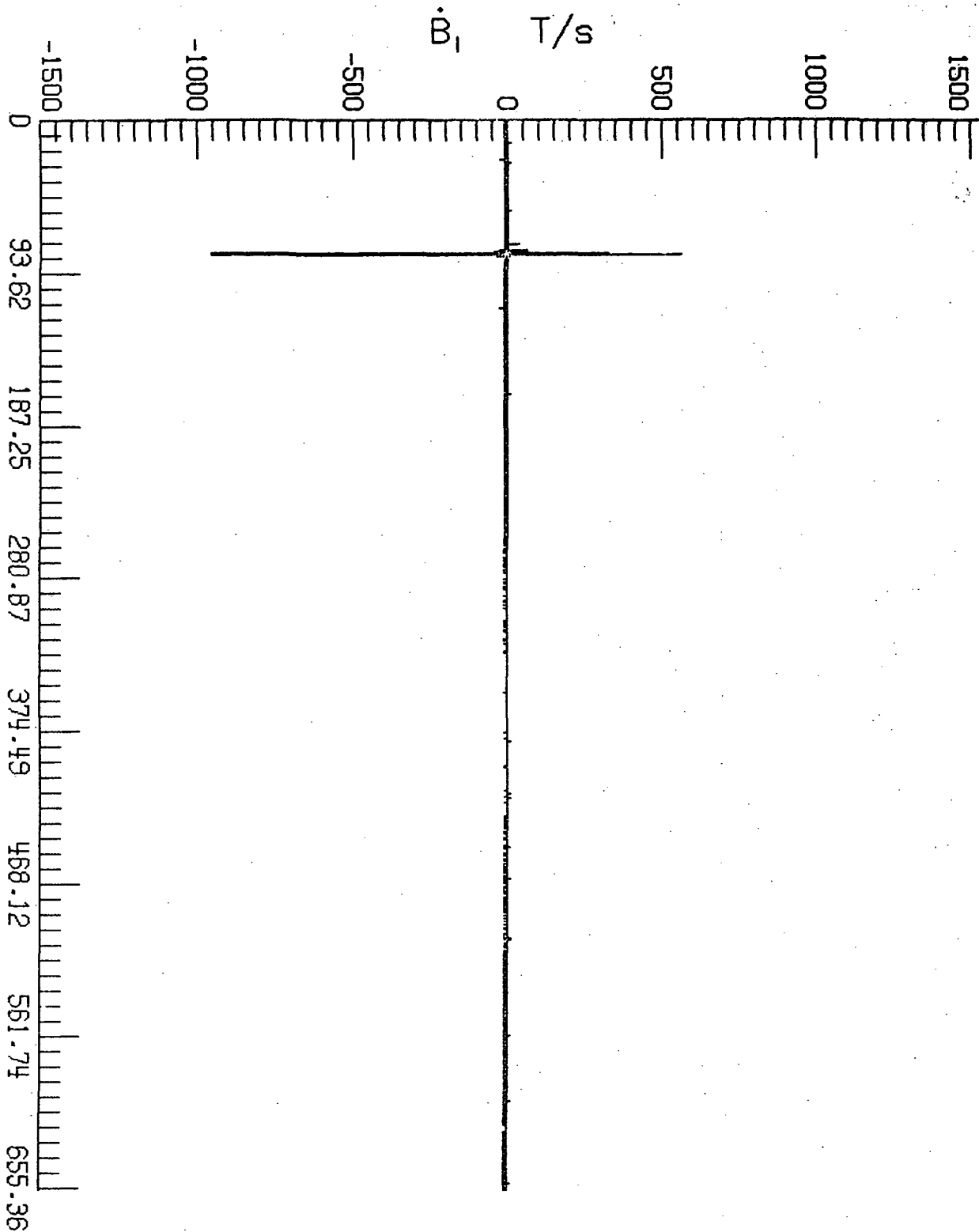
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\dot{D}_t A/m²



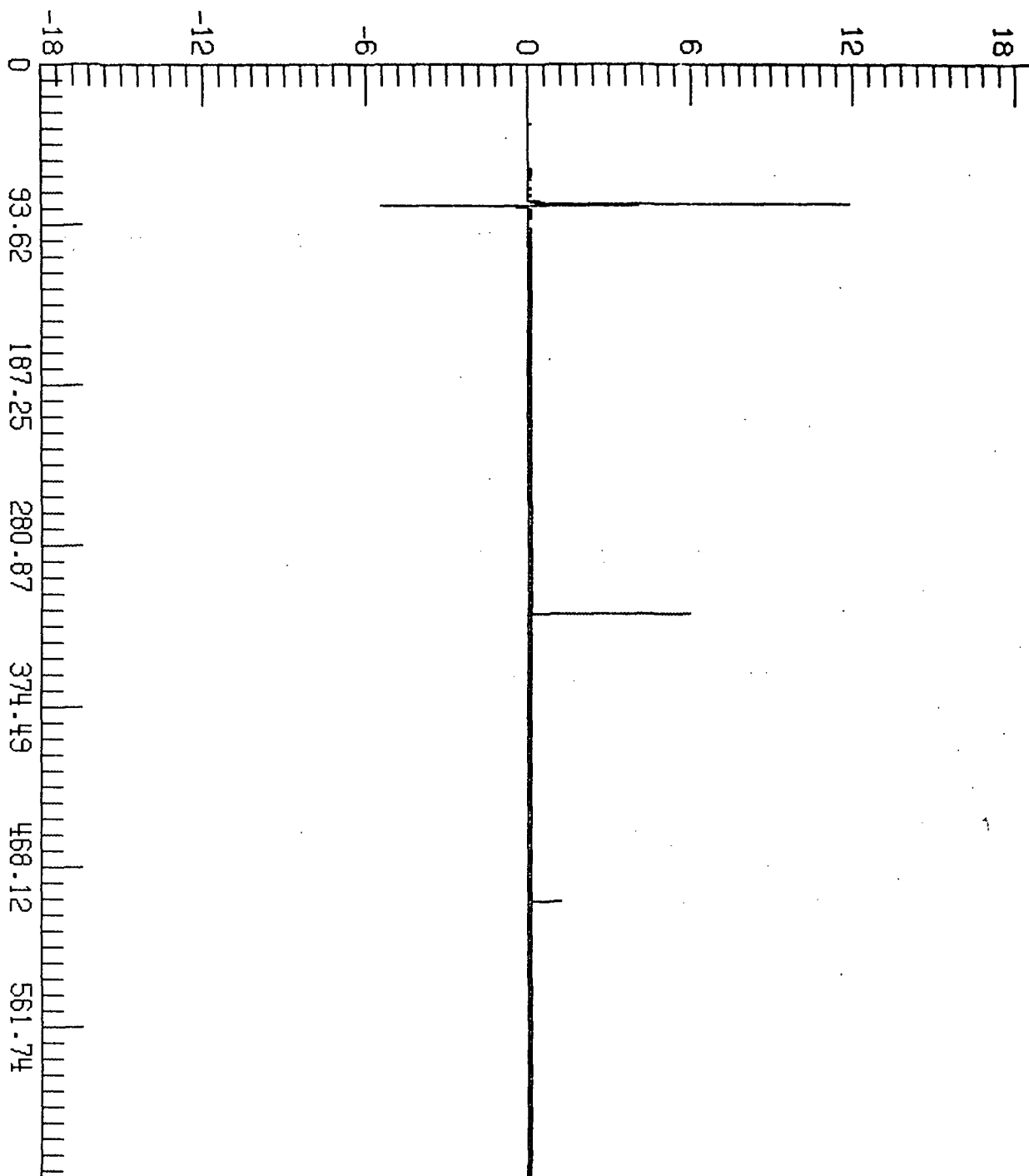
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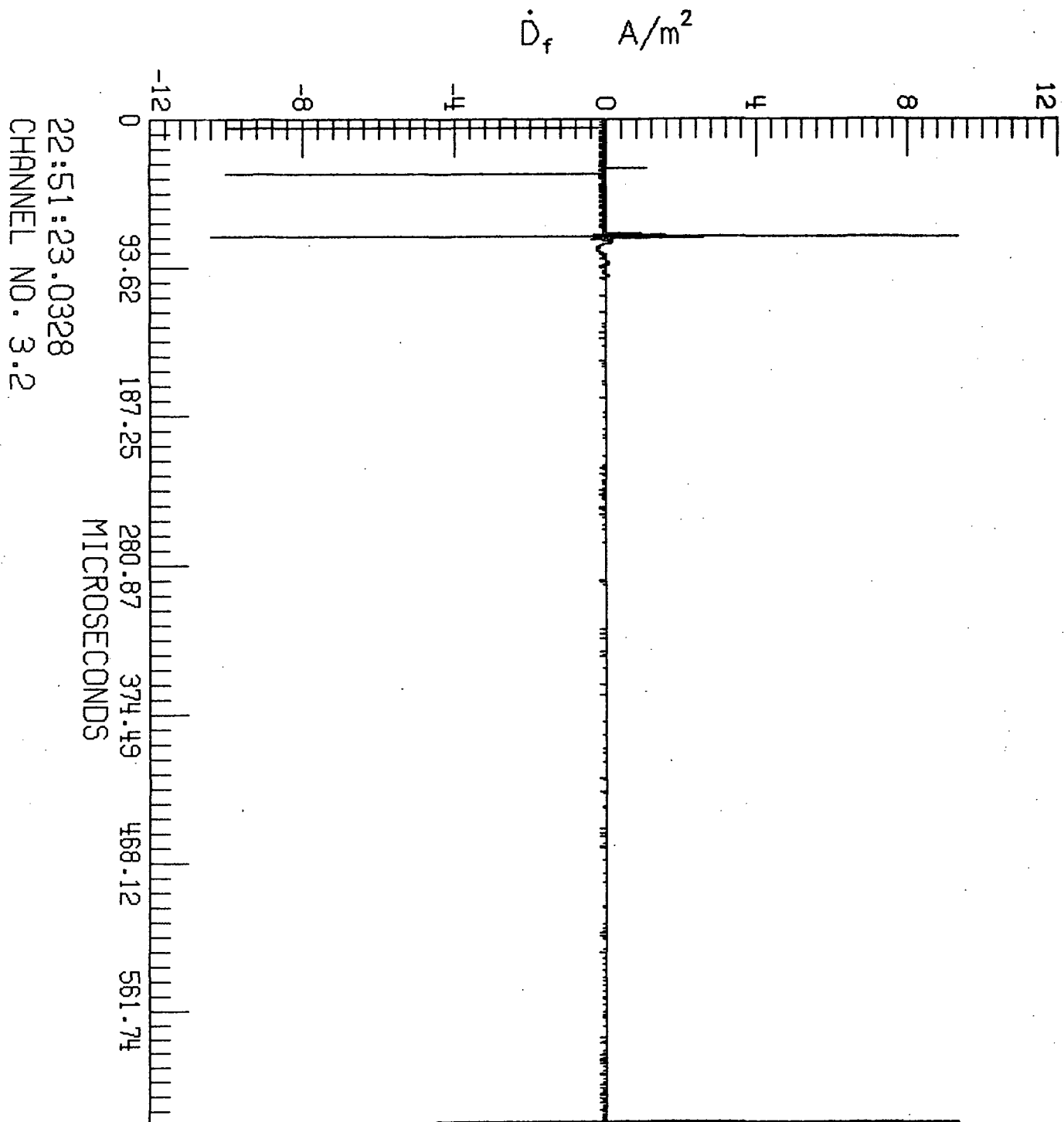
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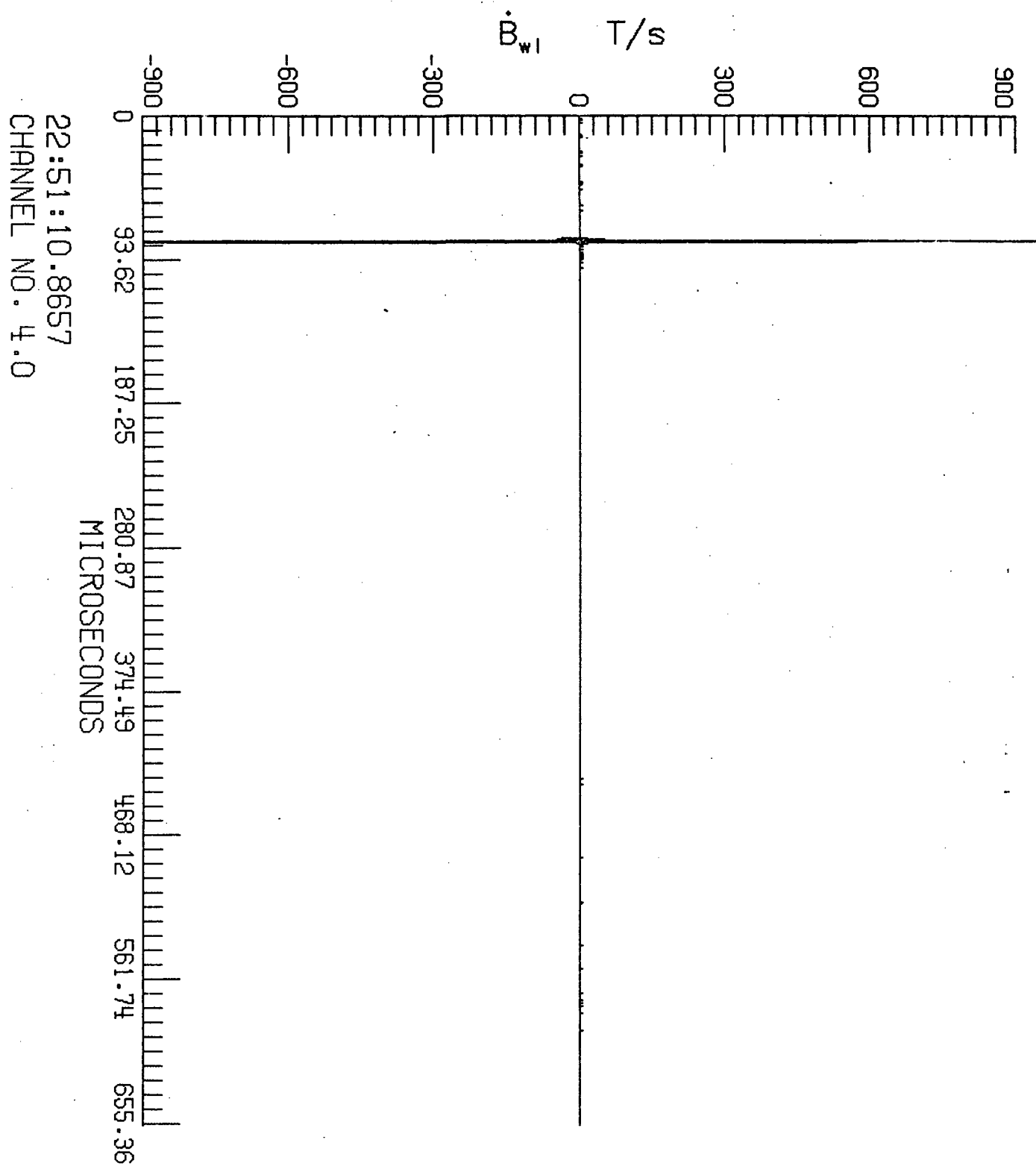


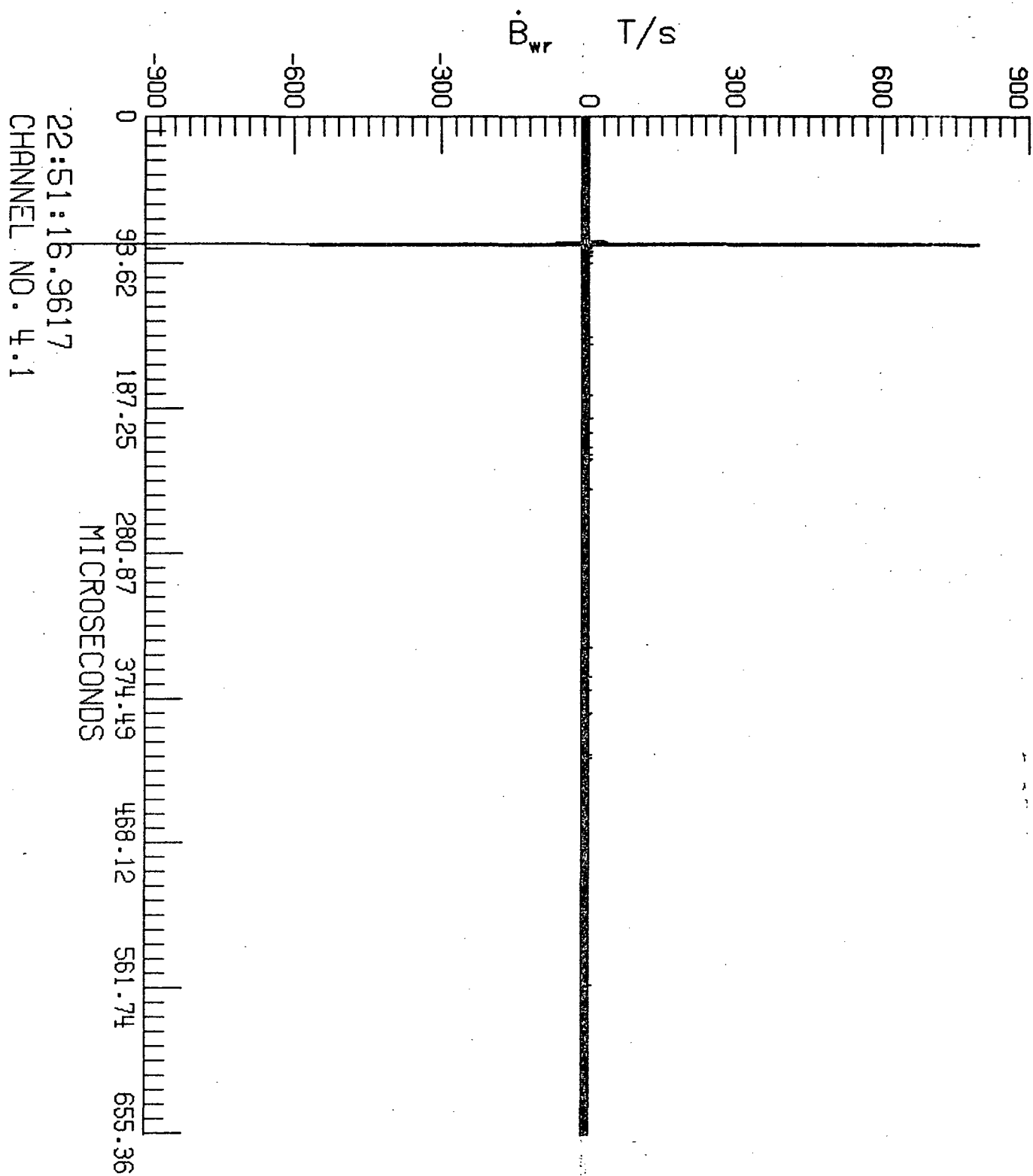
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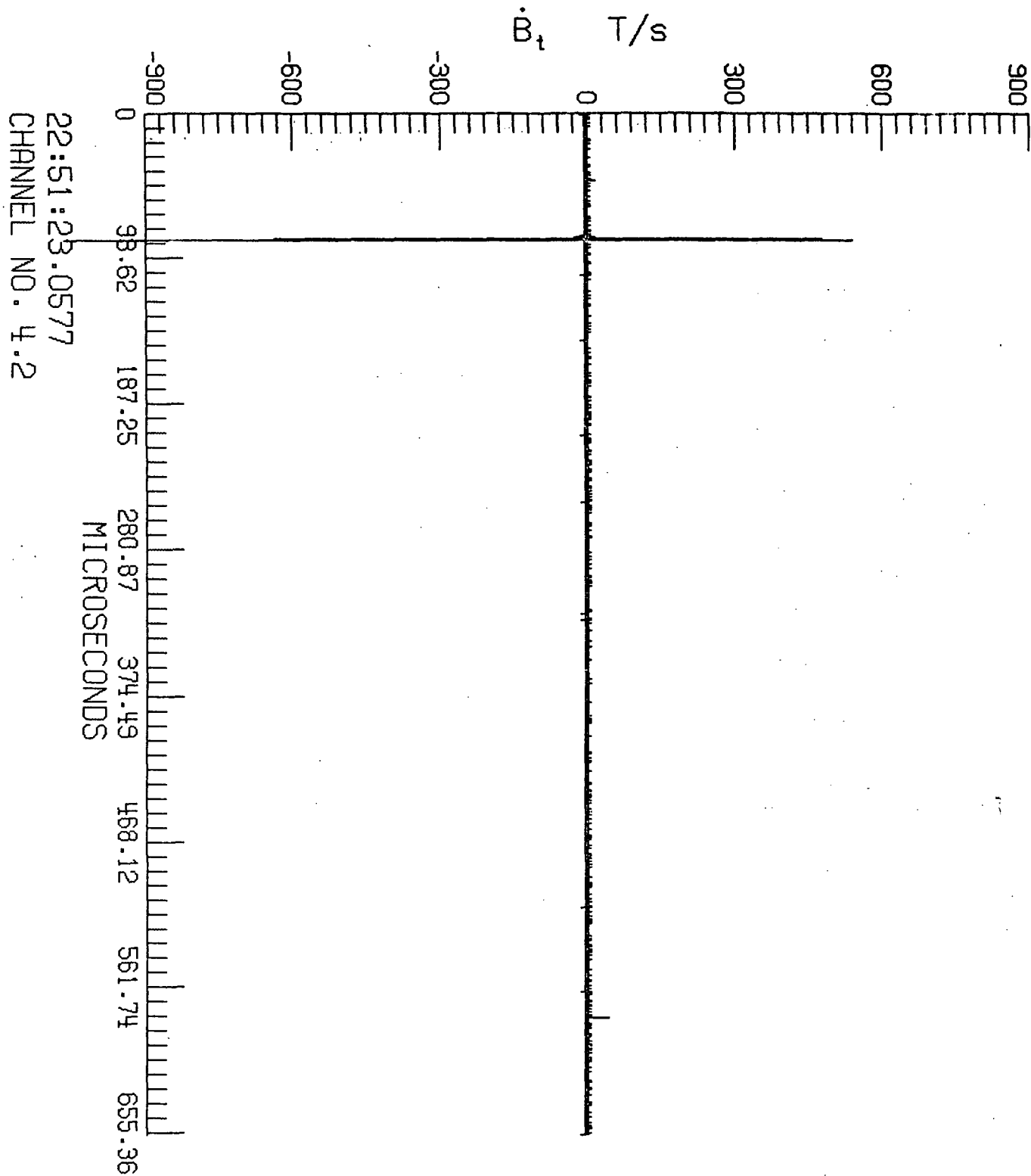
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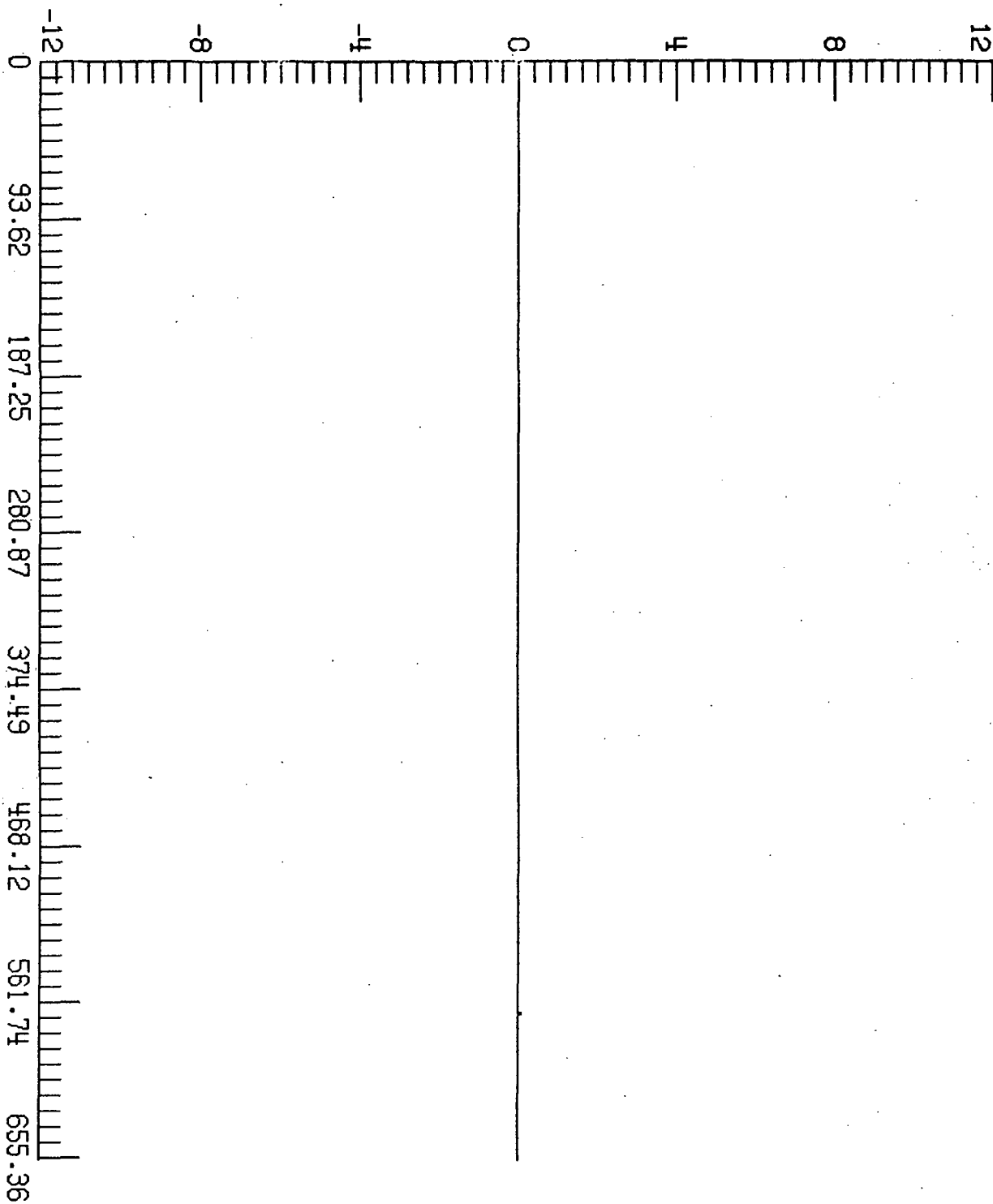




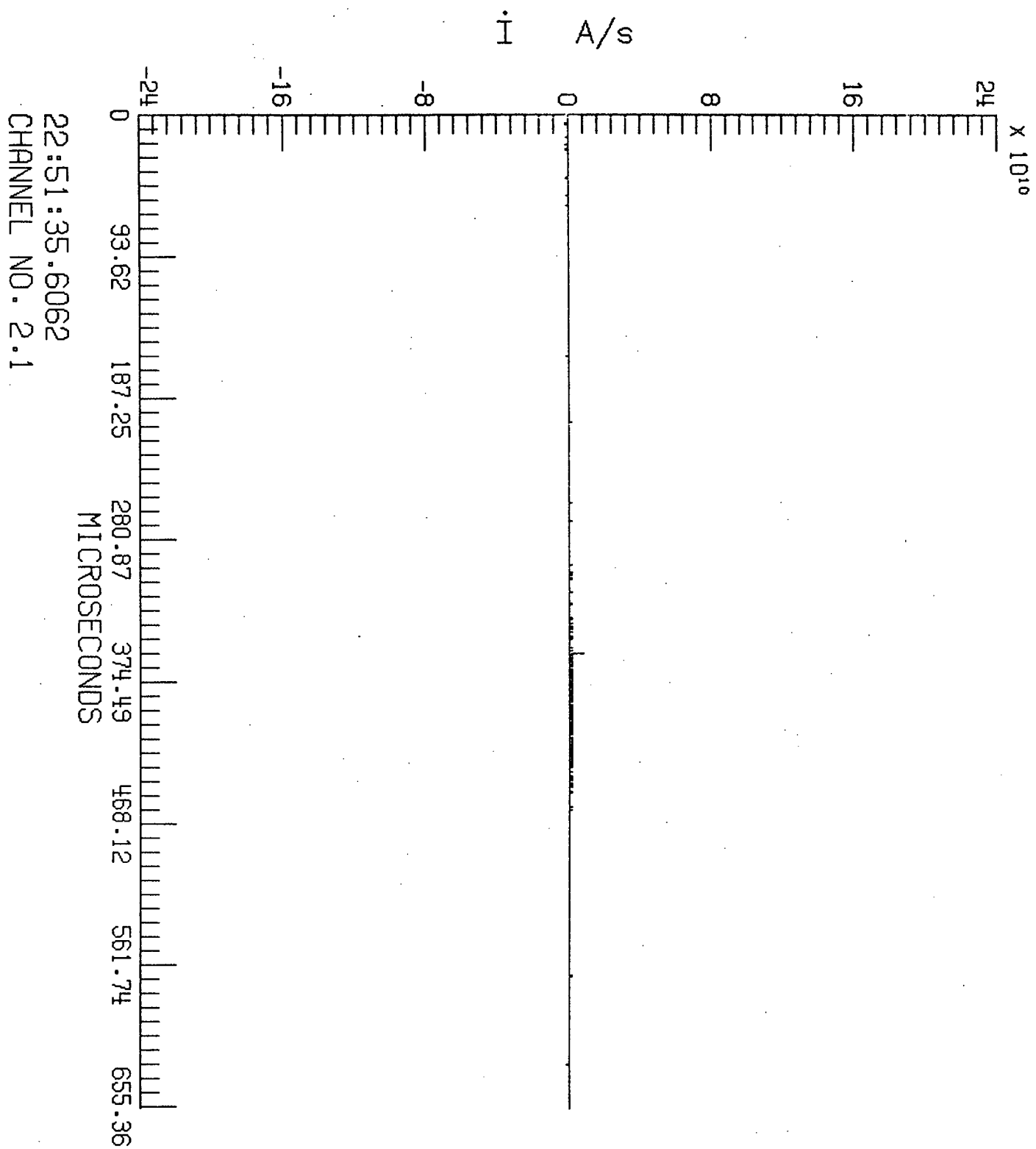


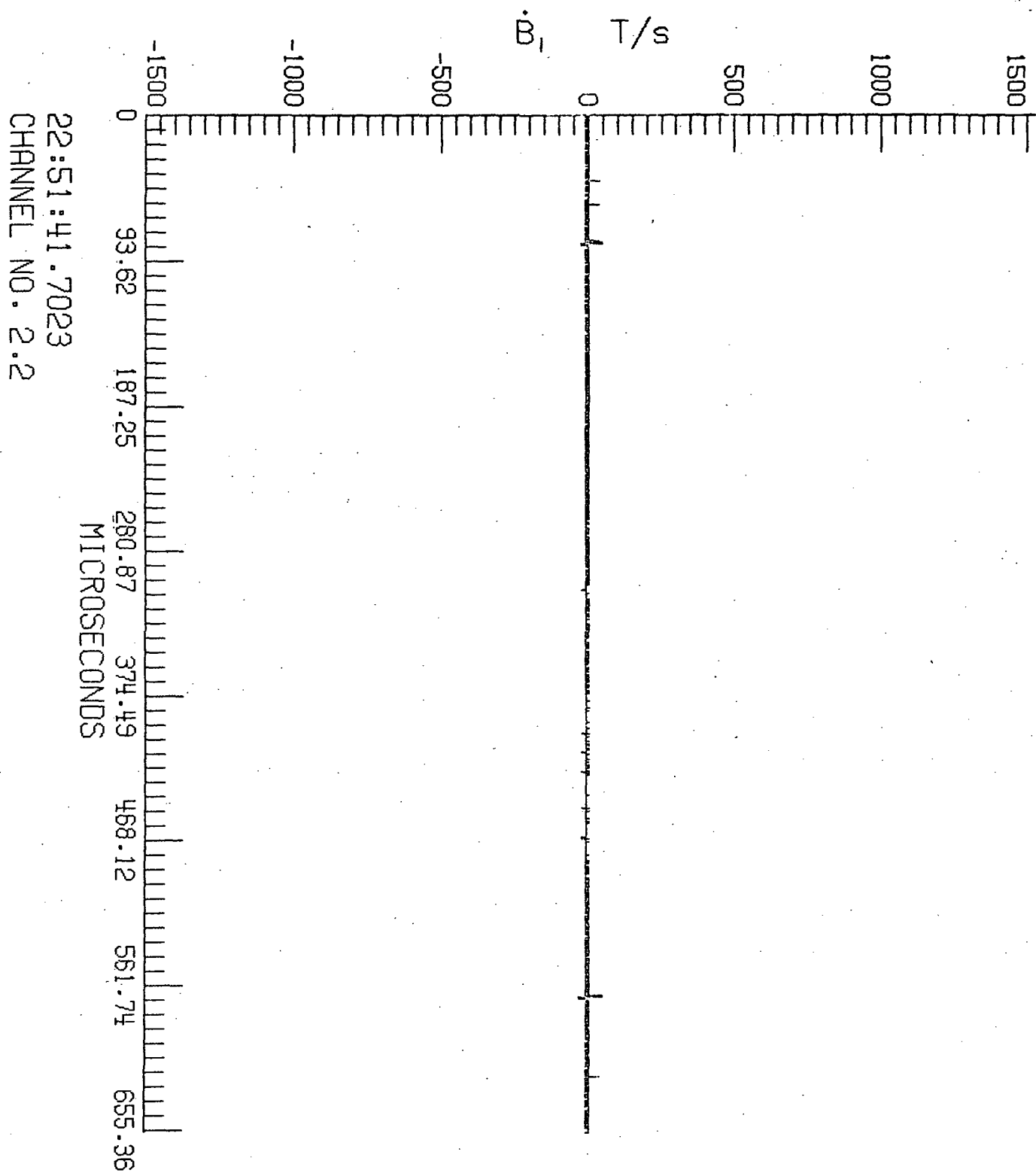


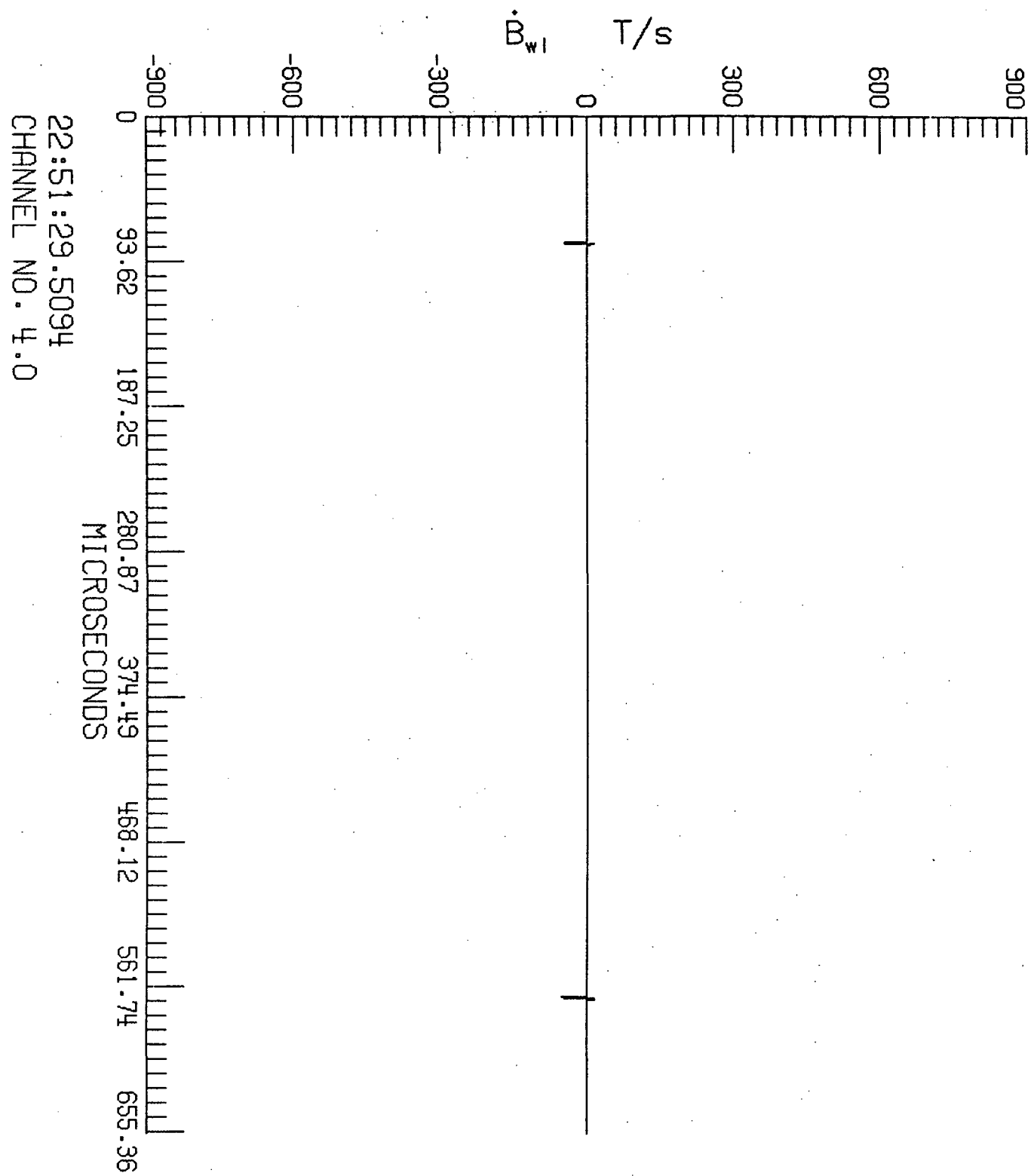
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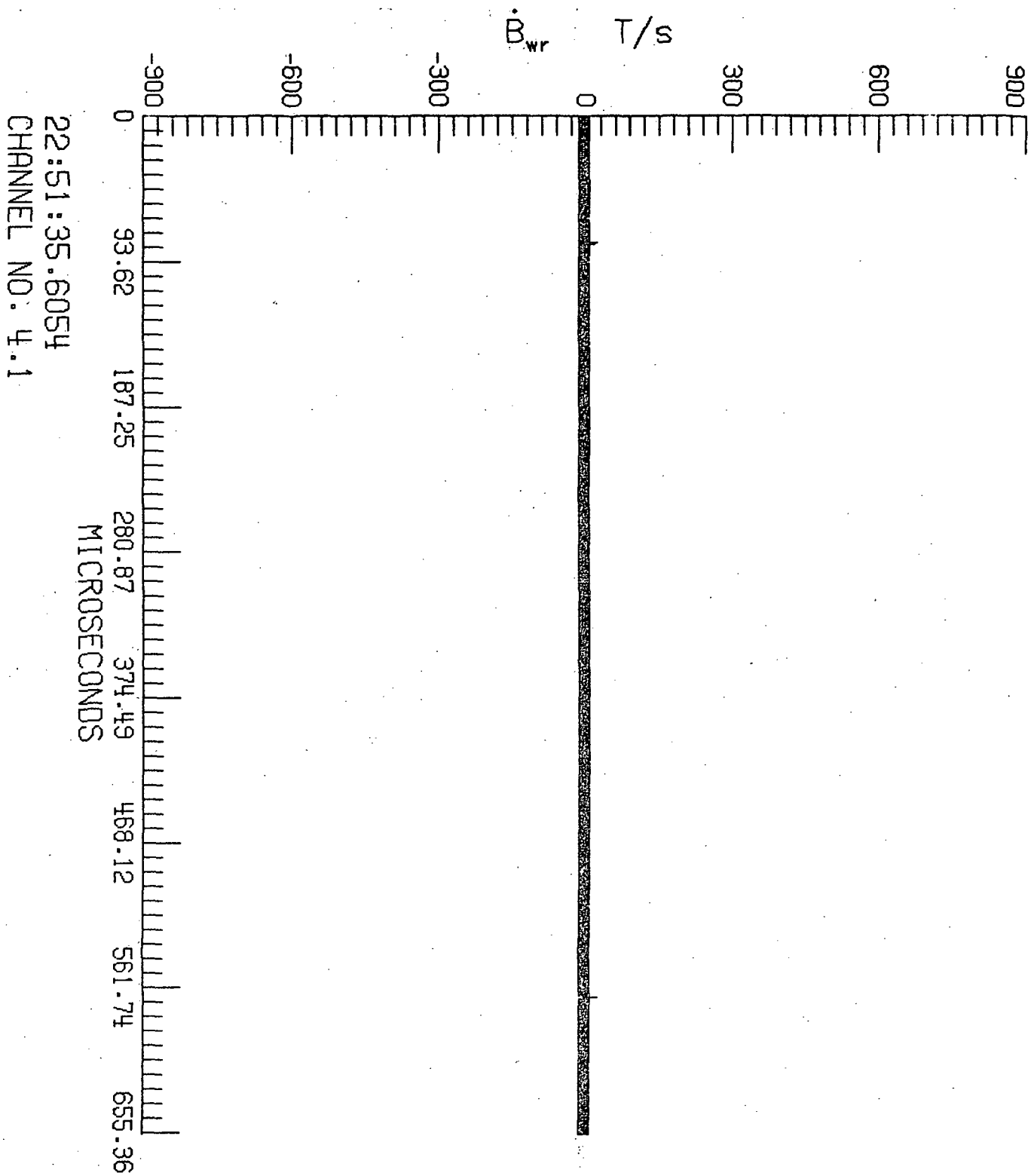


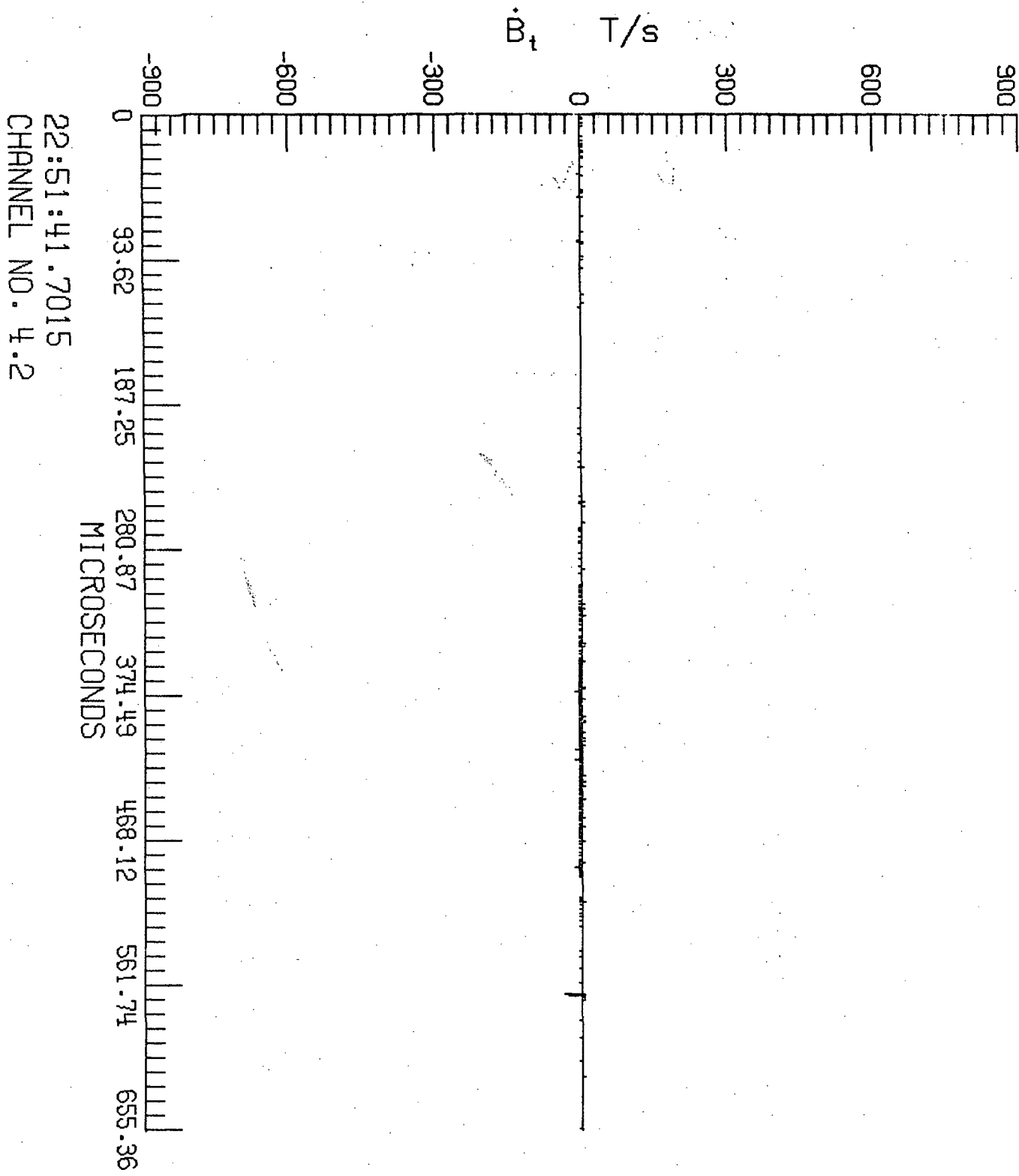
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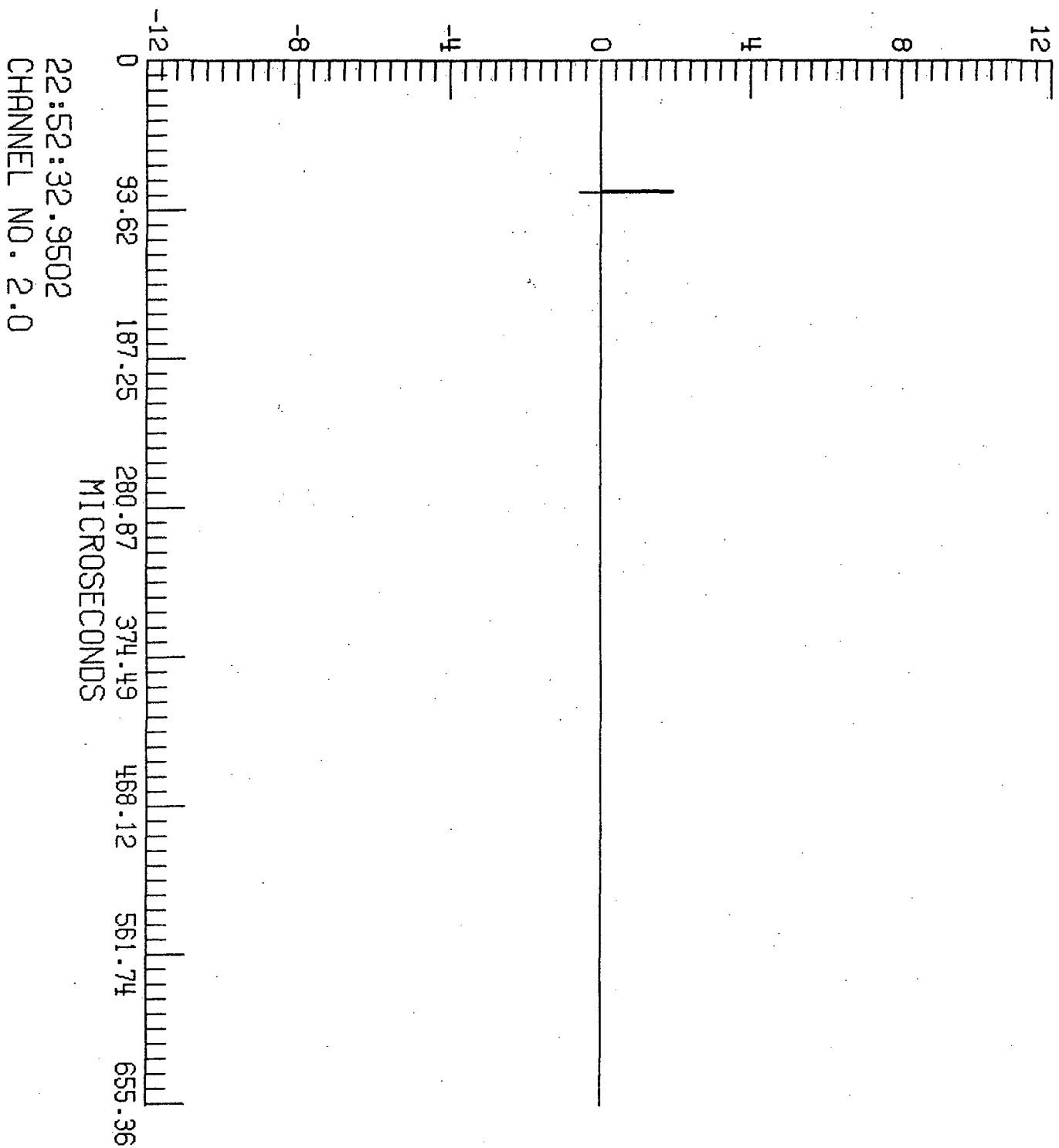


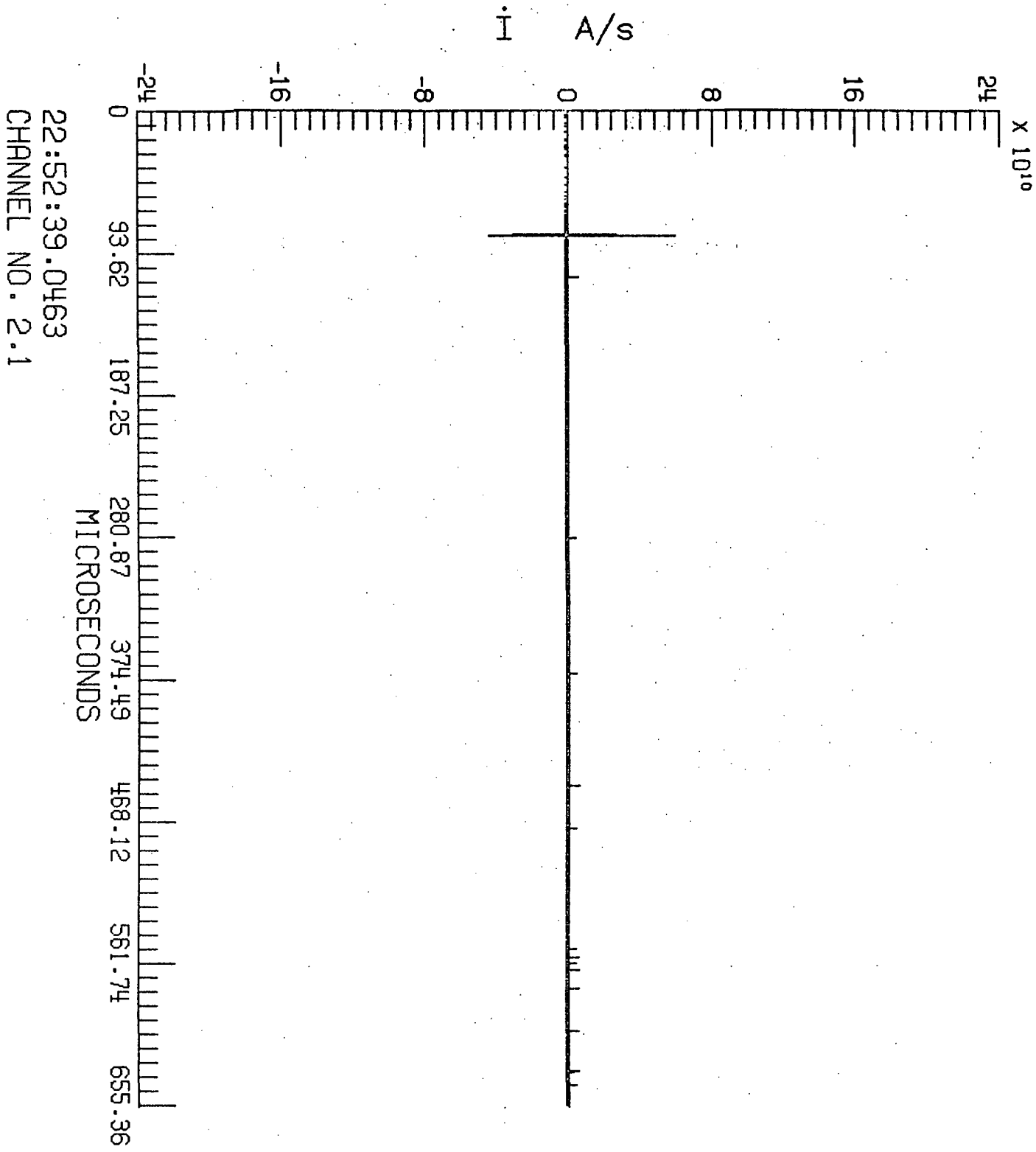


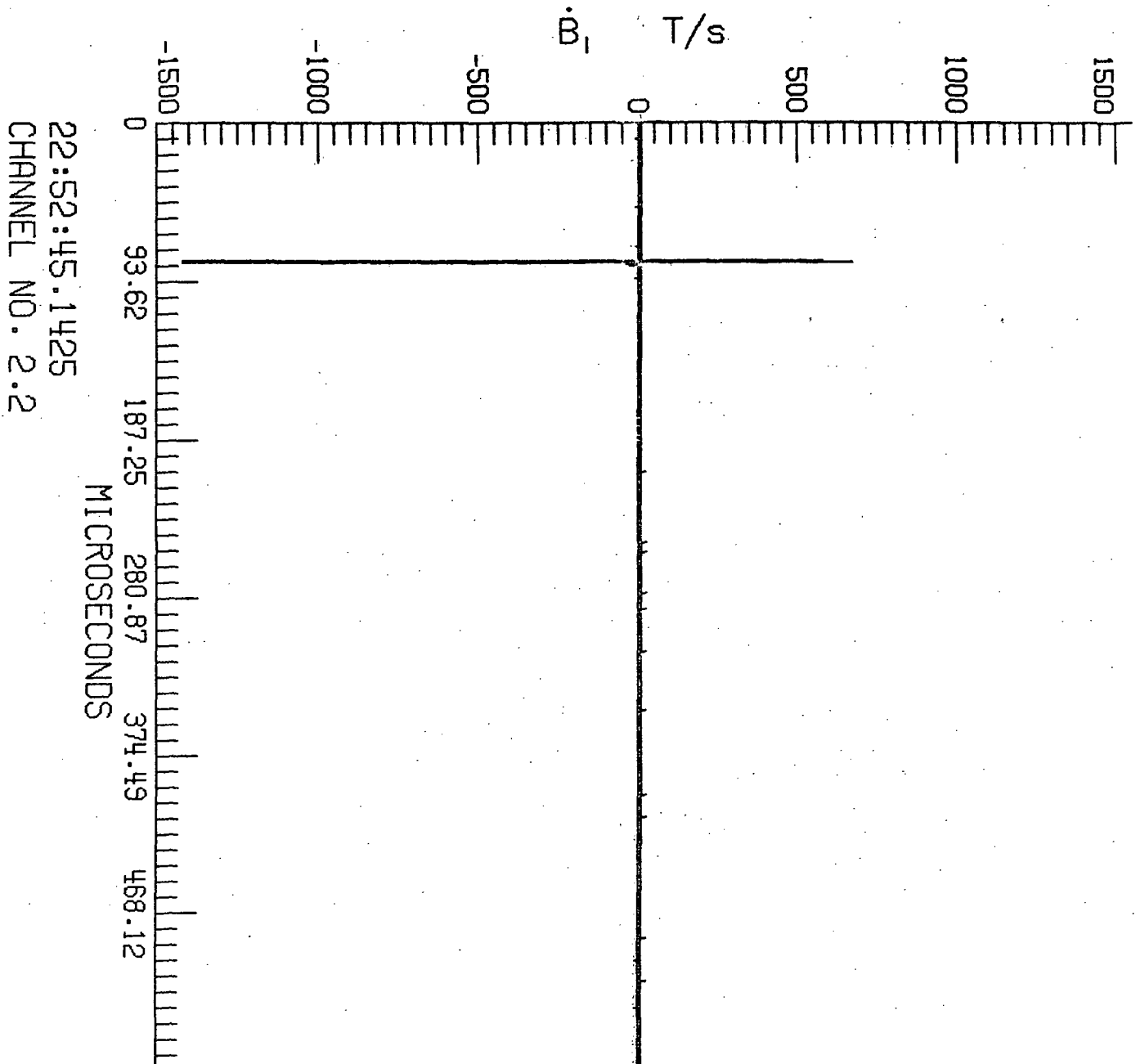
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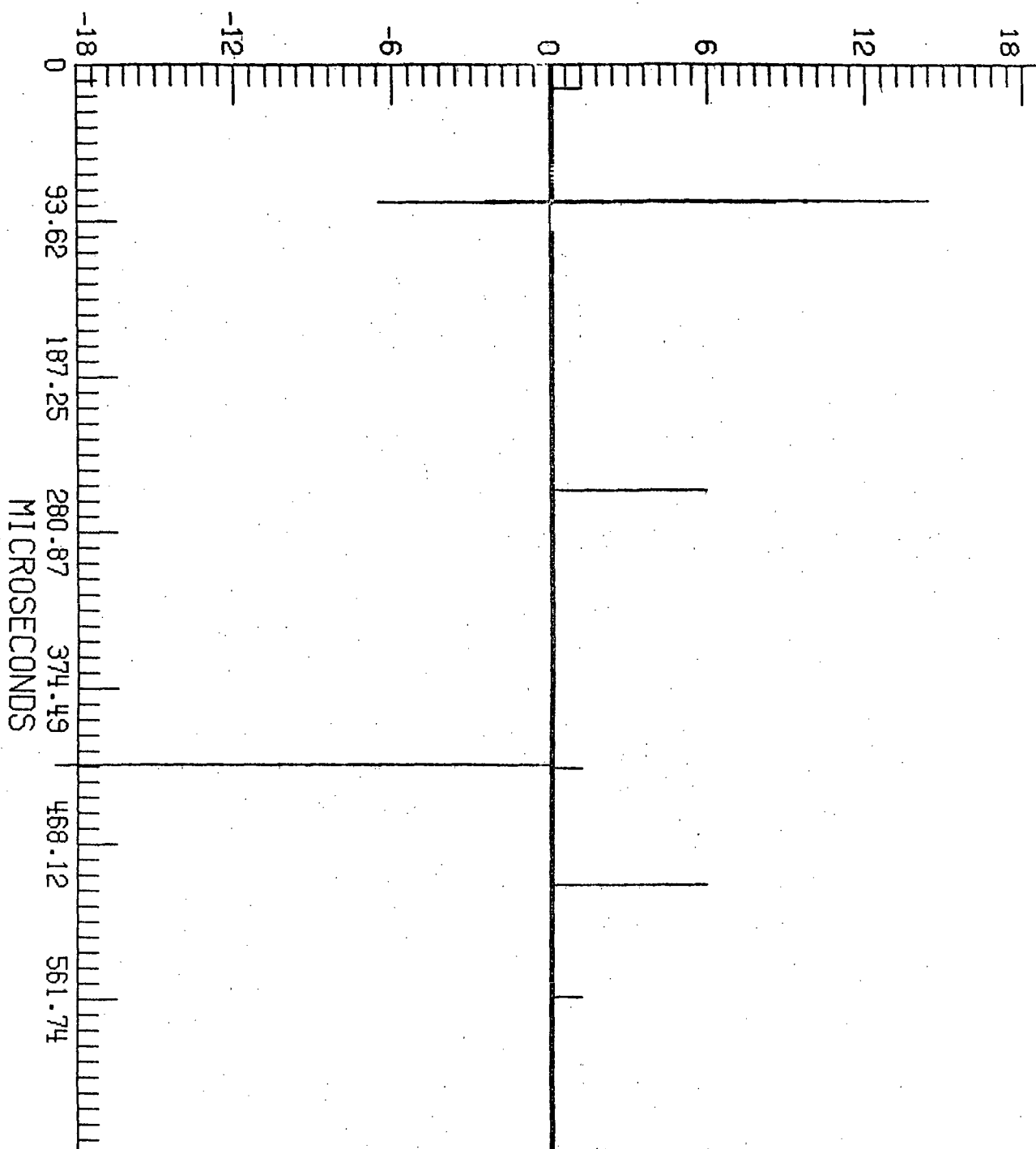
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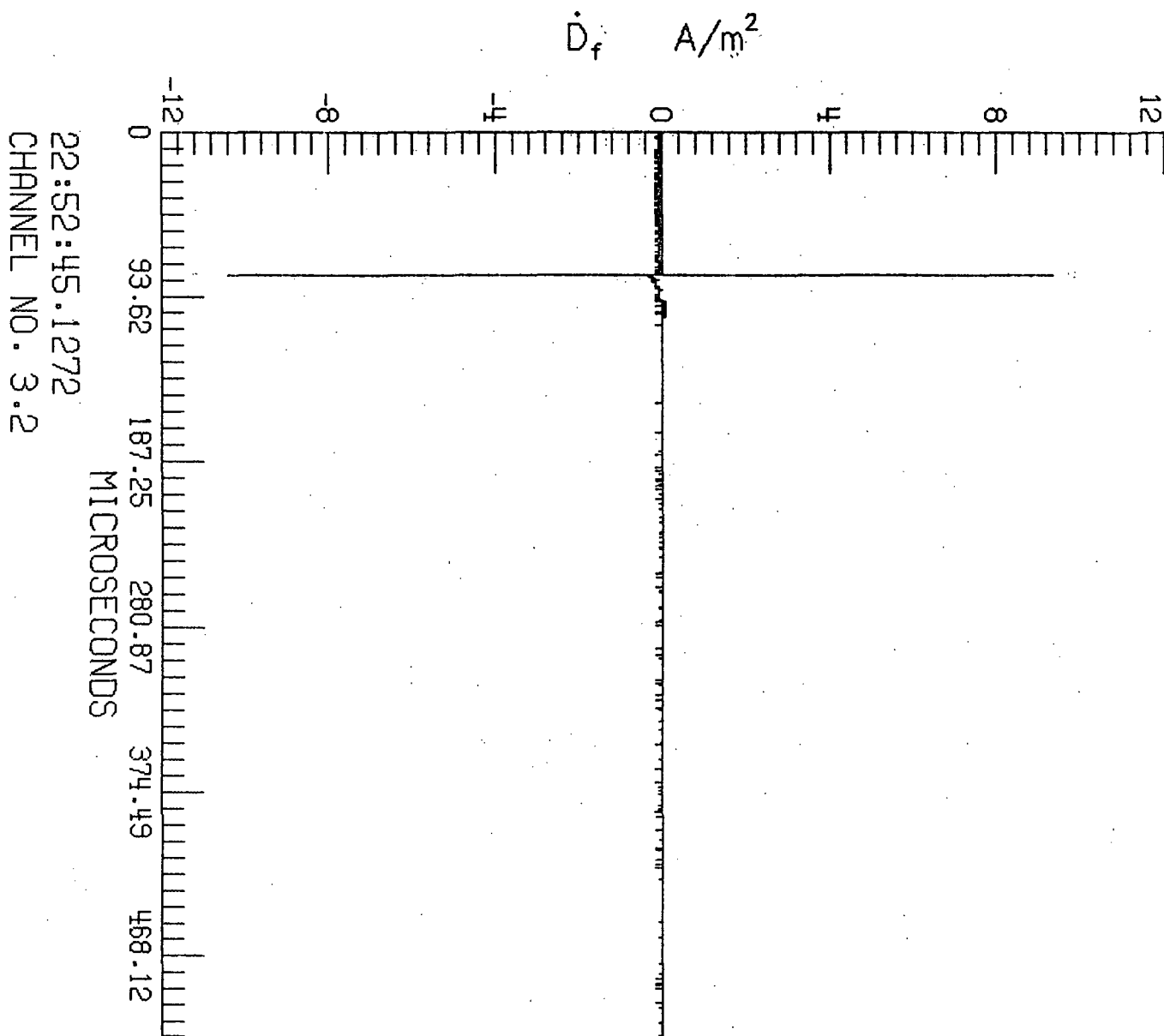
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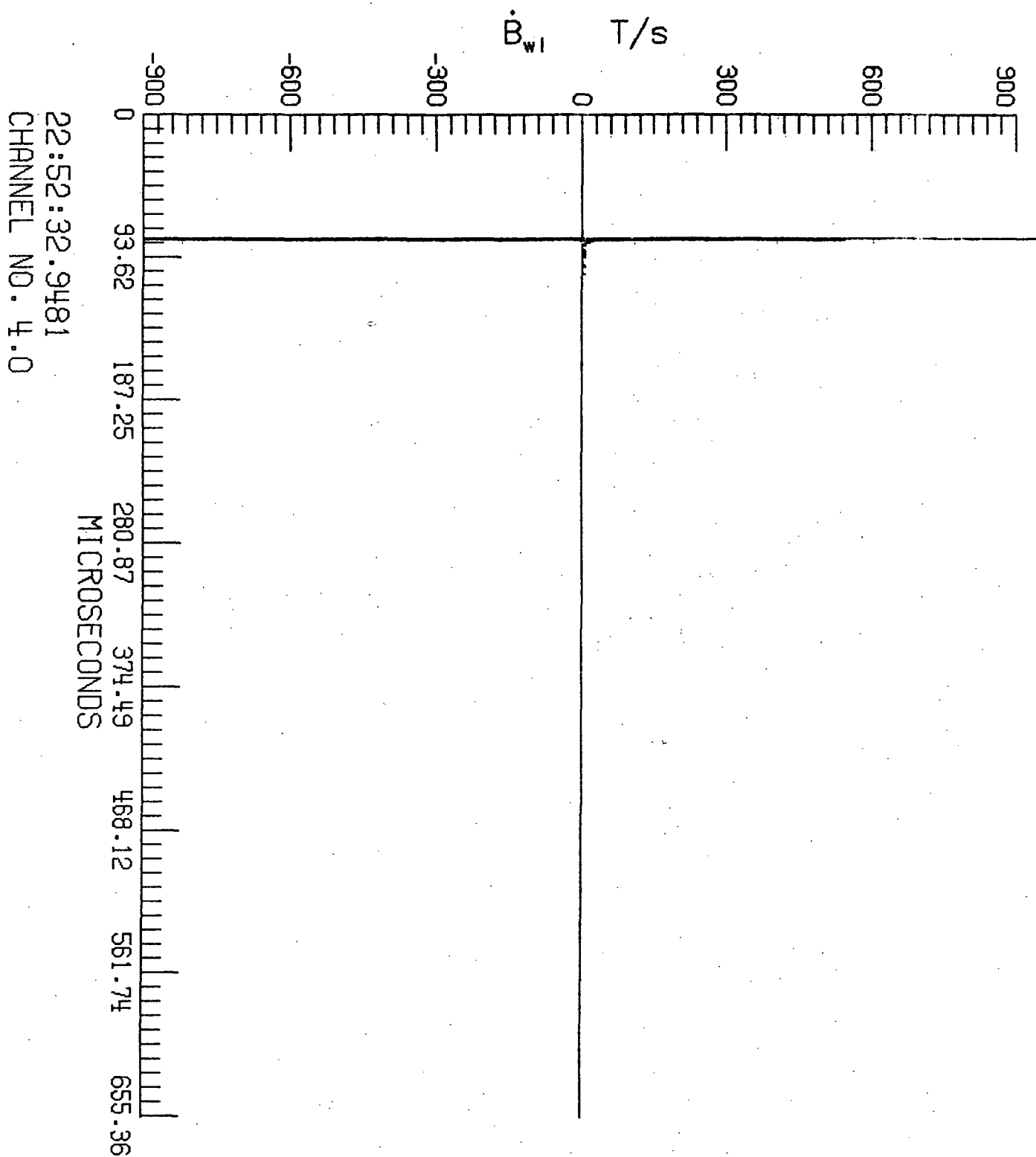
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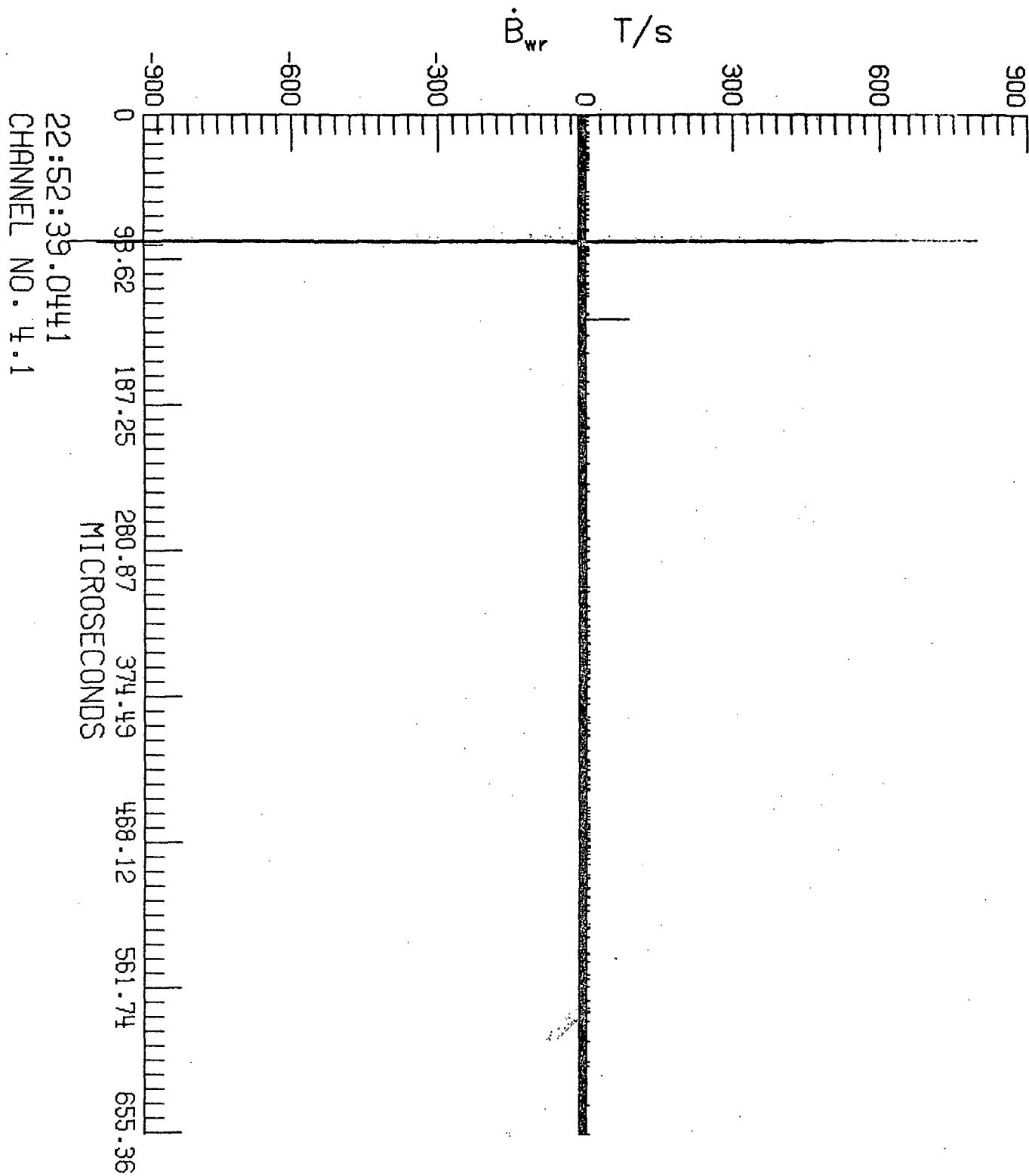
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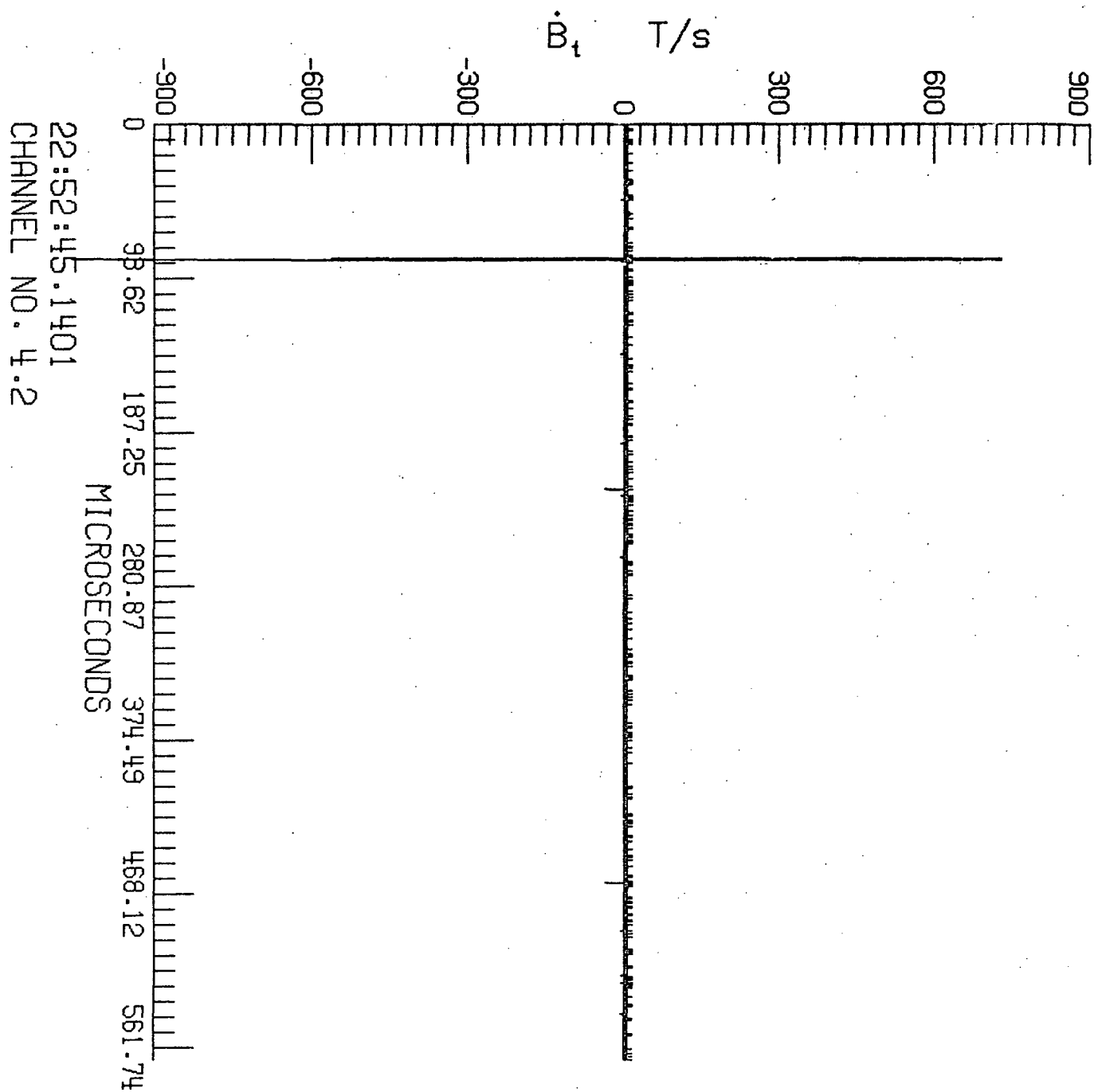


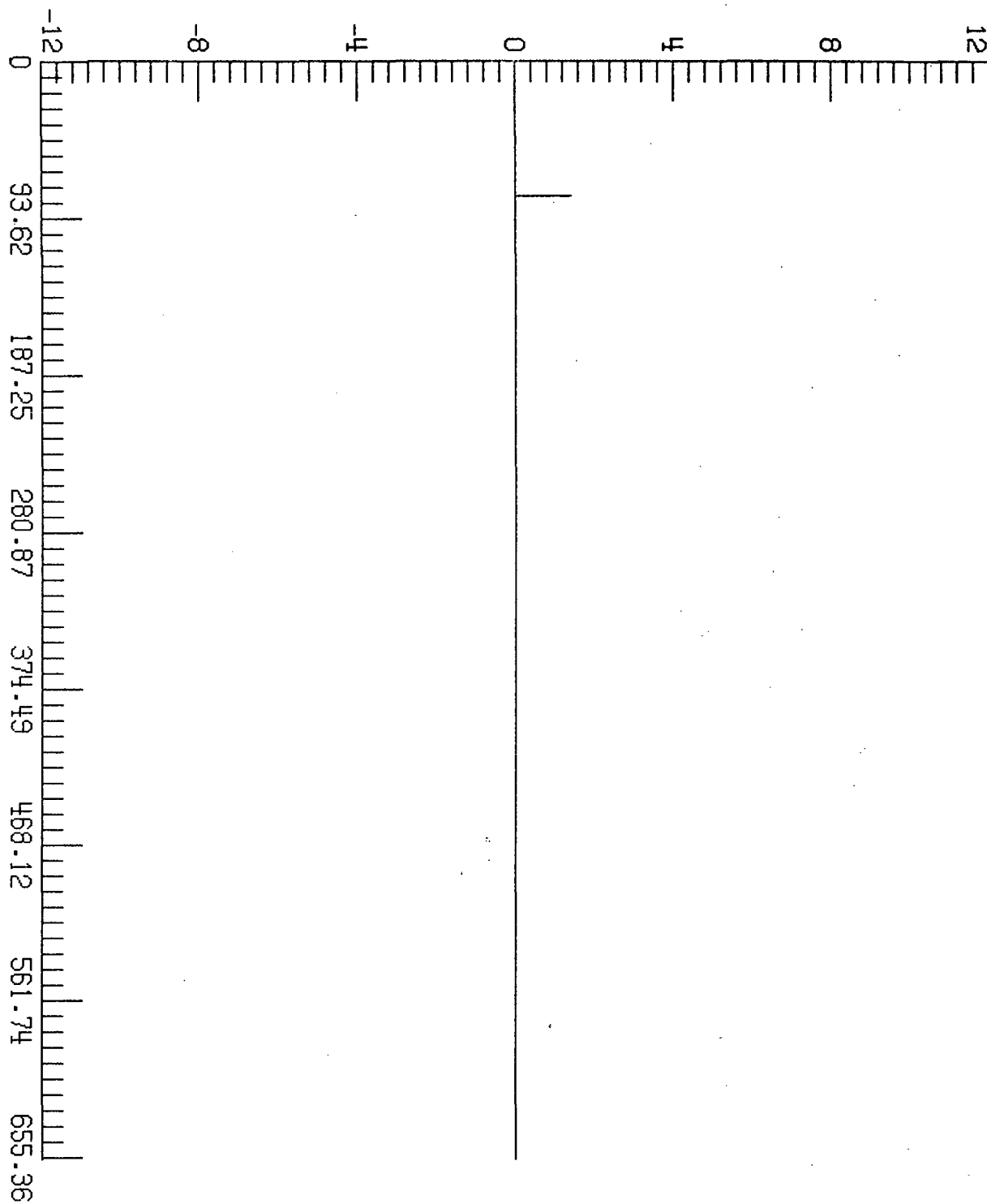
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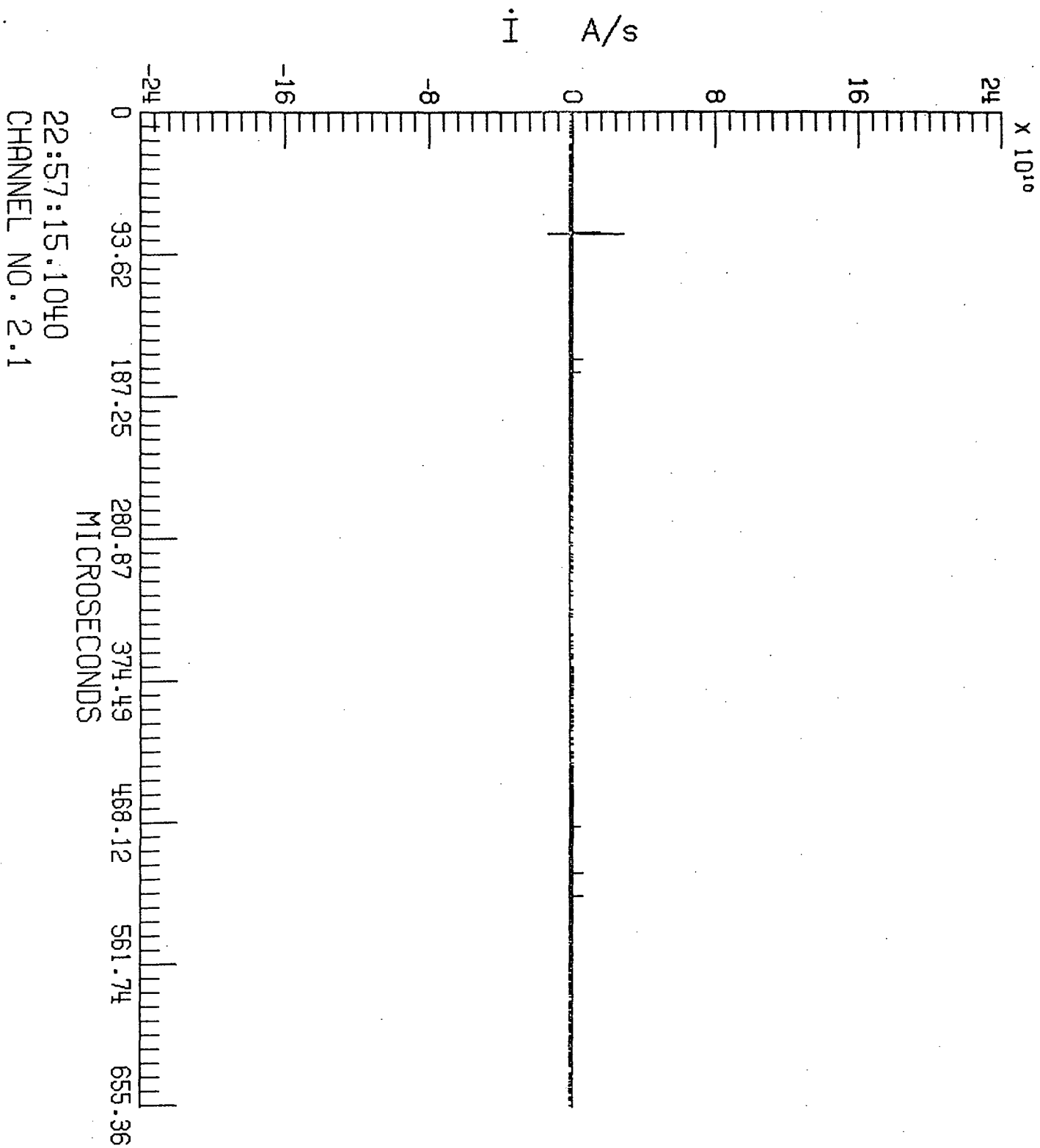


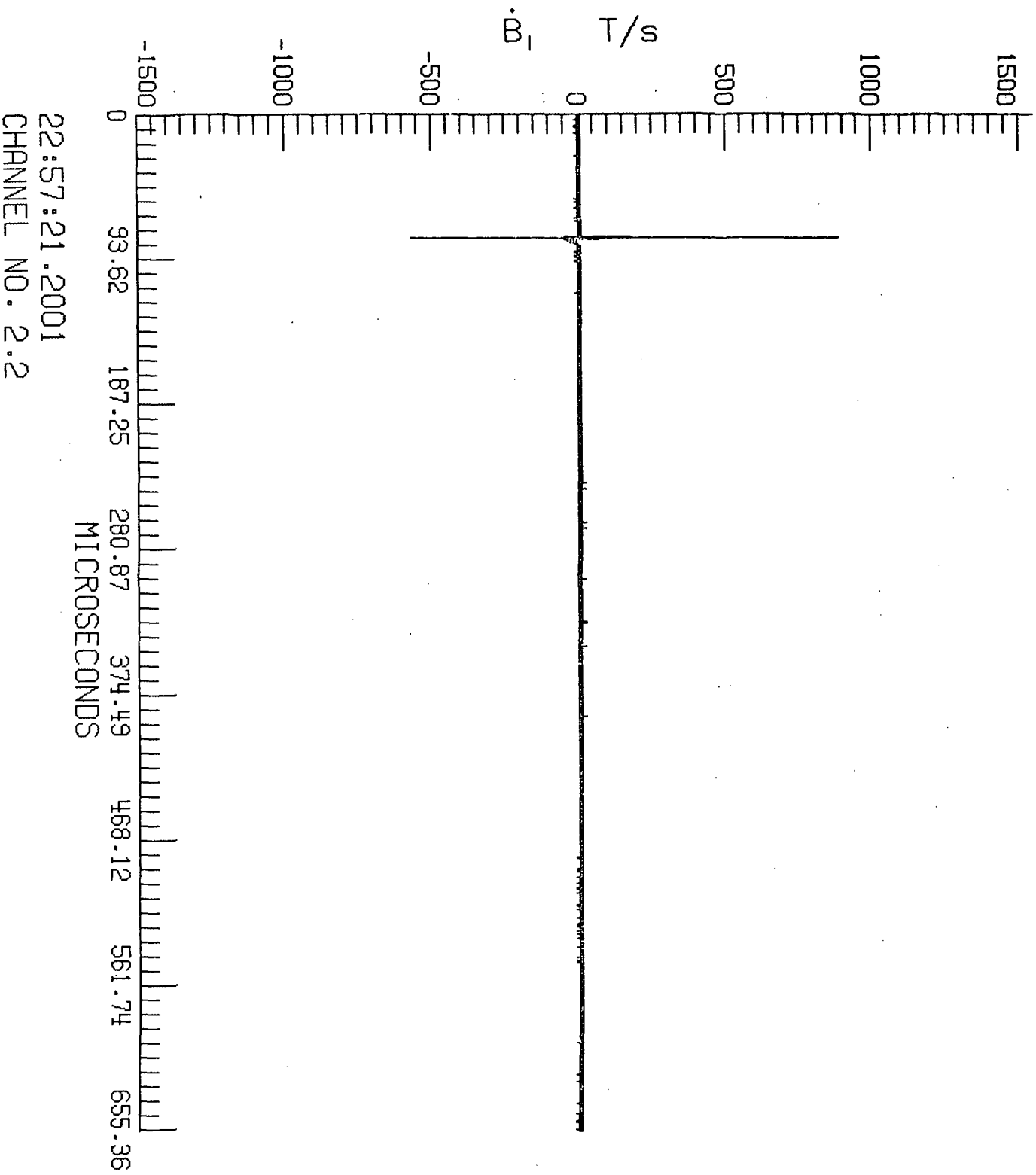




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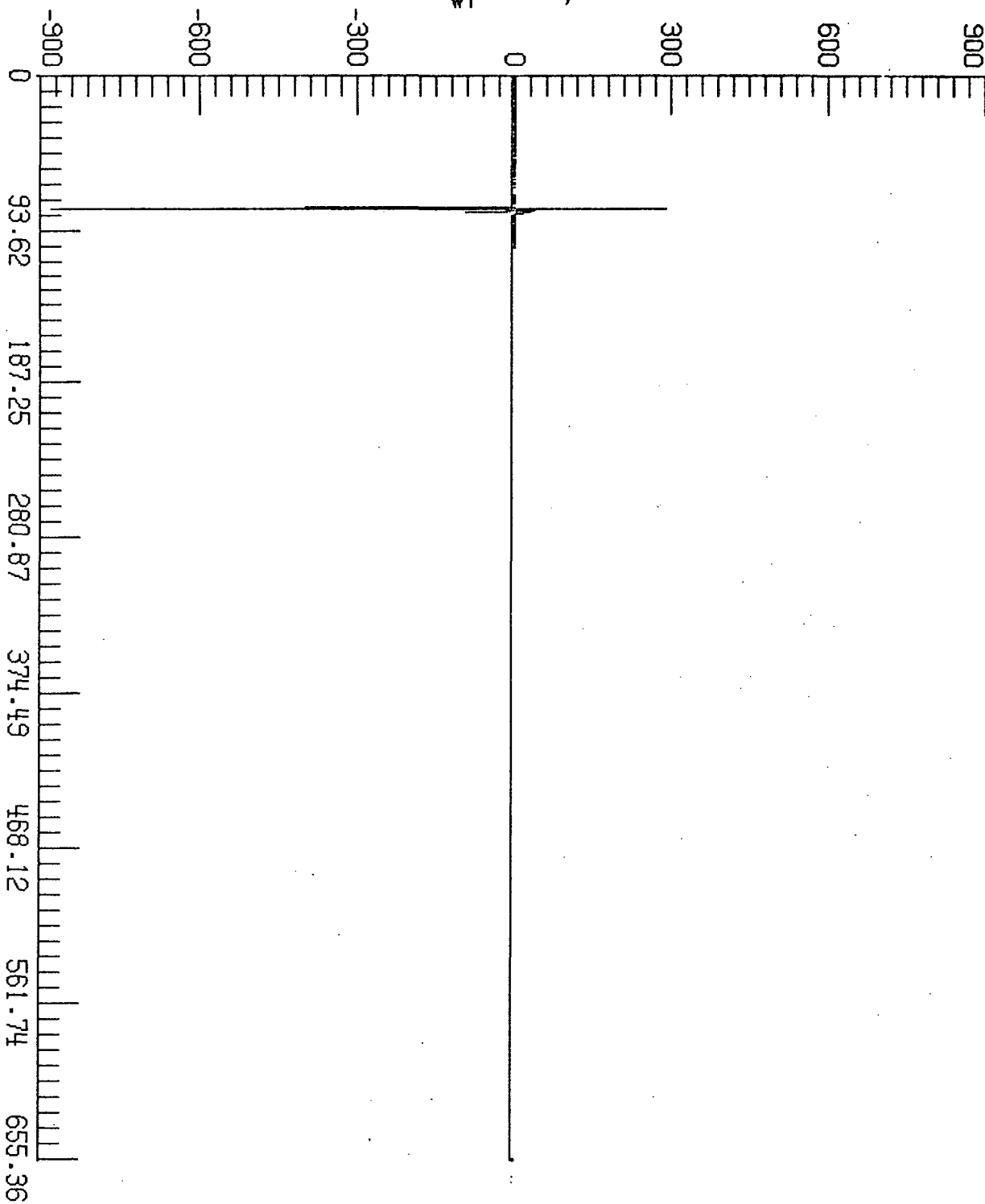




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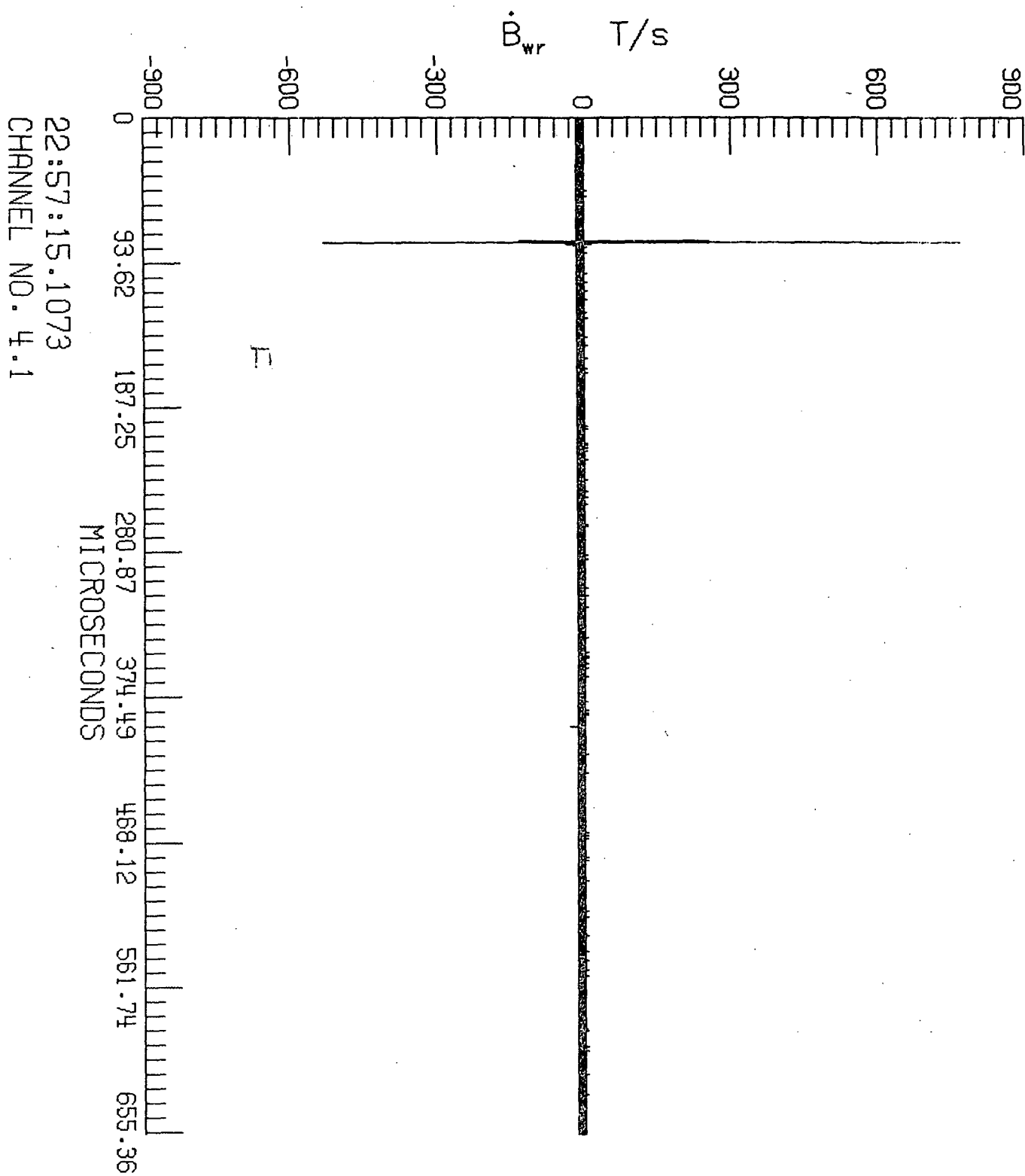
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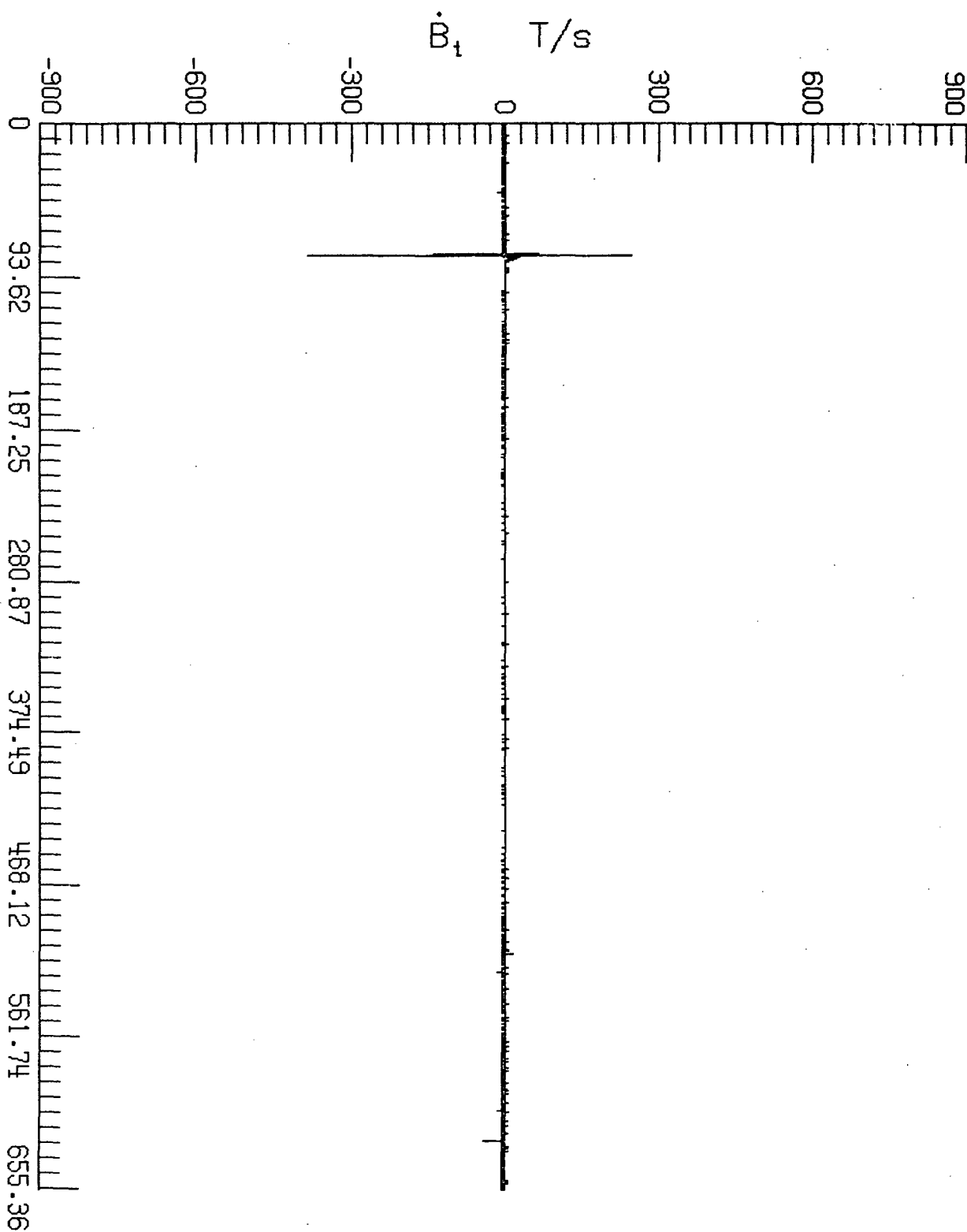
\dot{B}_w T/s



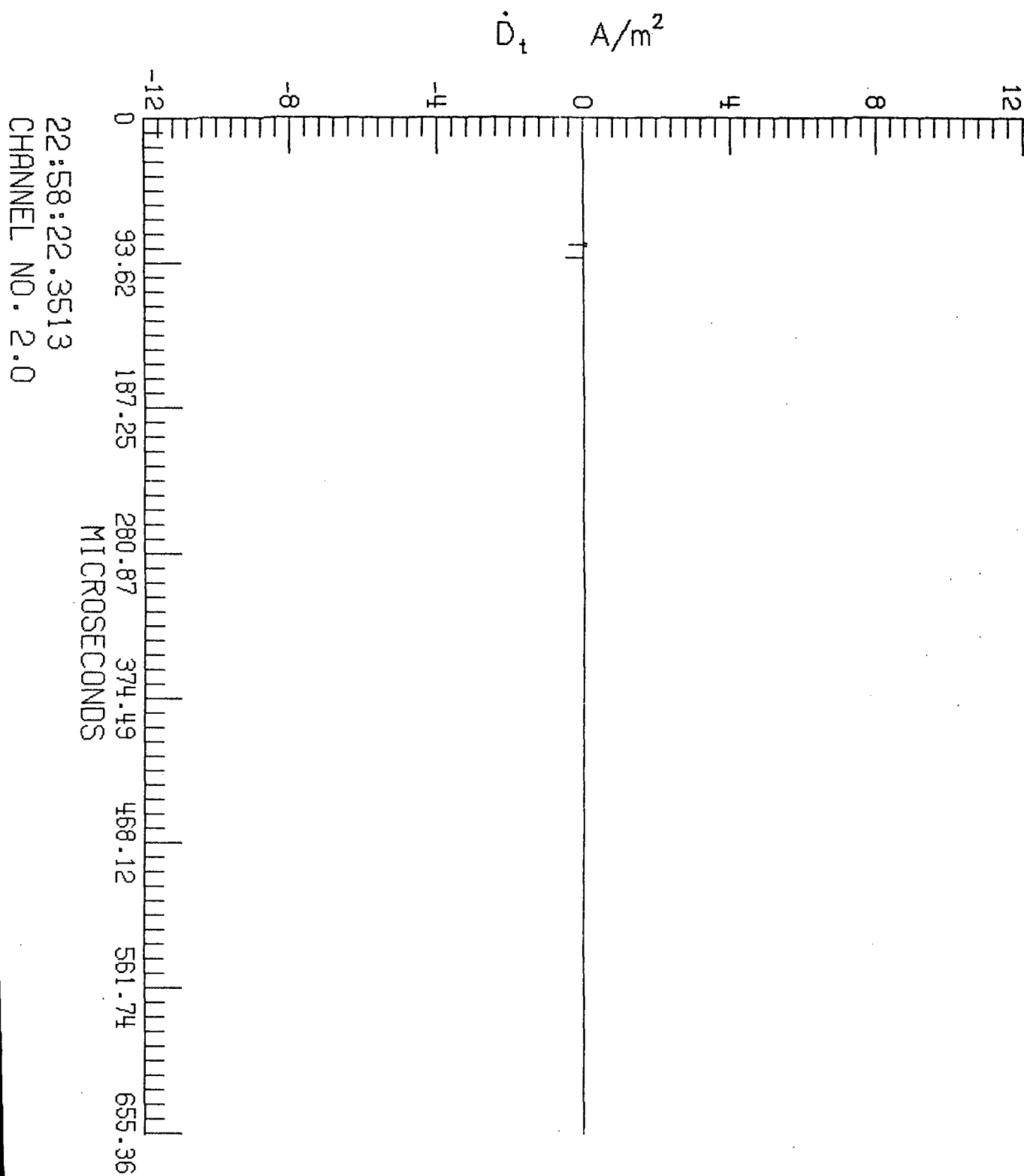
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CHANNEL NO. 4.0

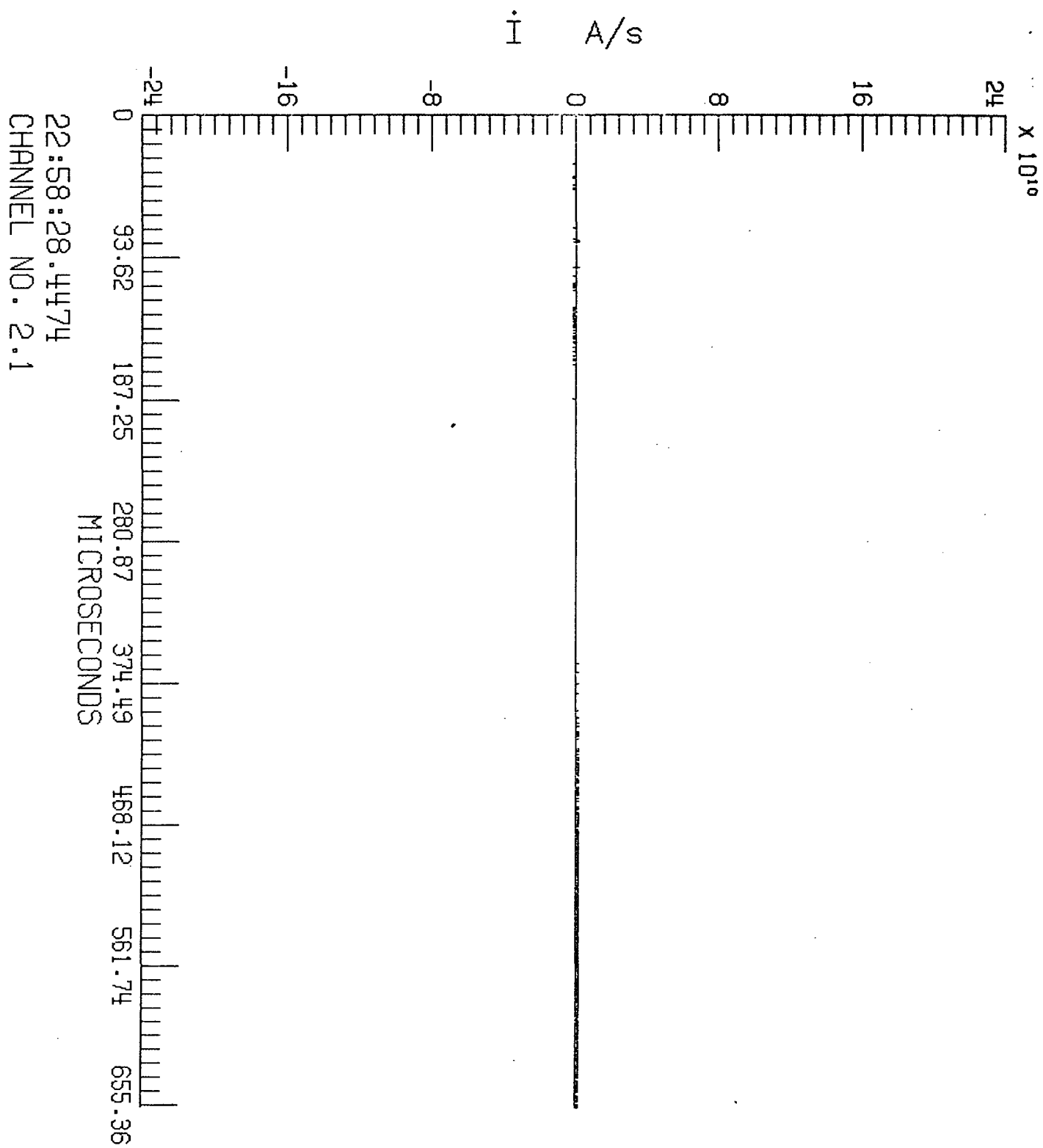
MICROSECONDS

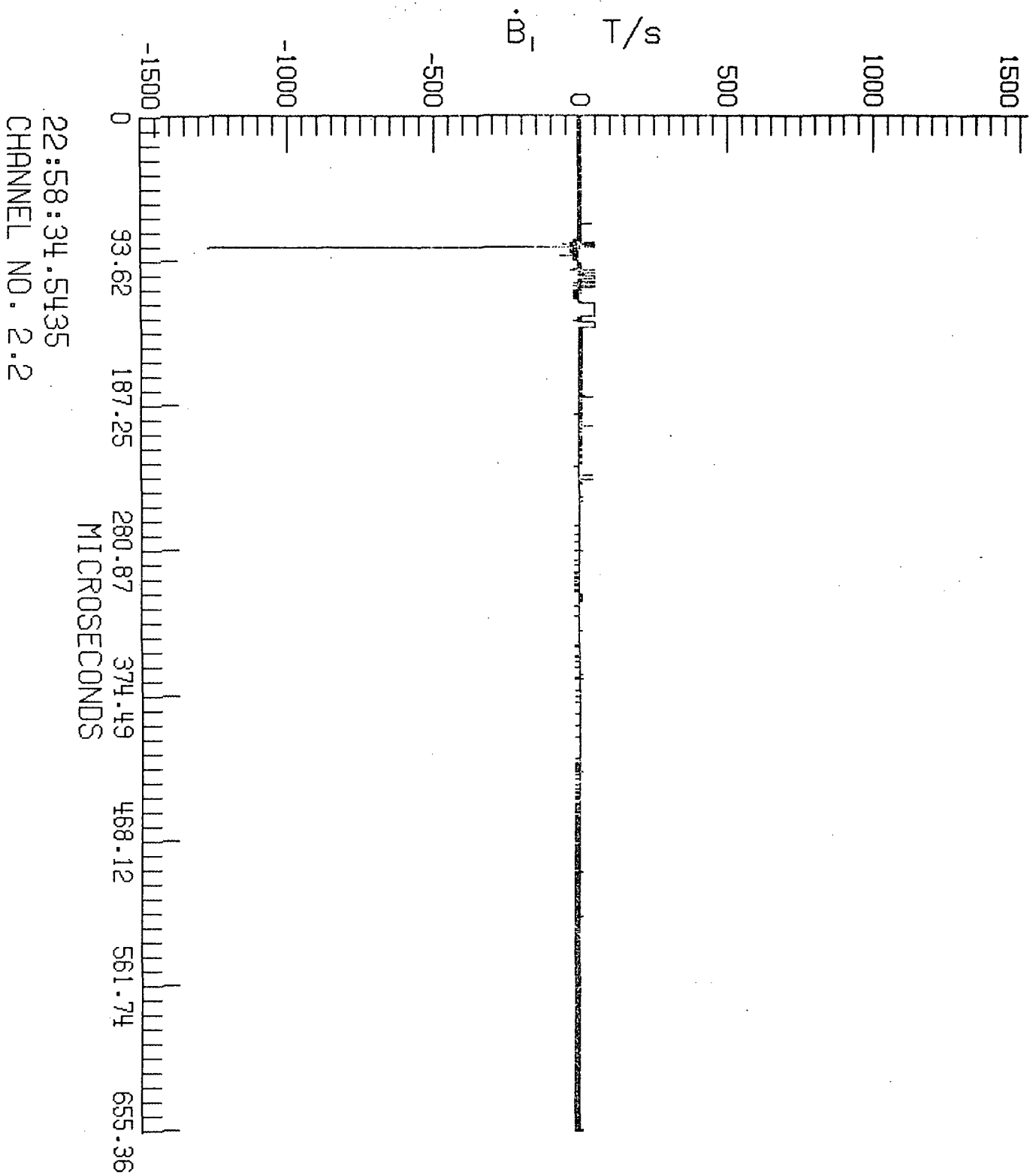




22:57:21.2033
CHANNEL NO. 4.2

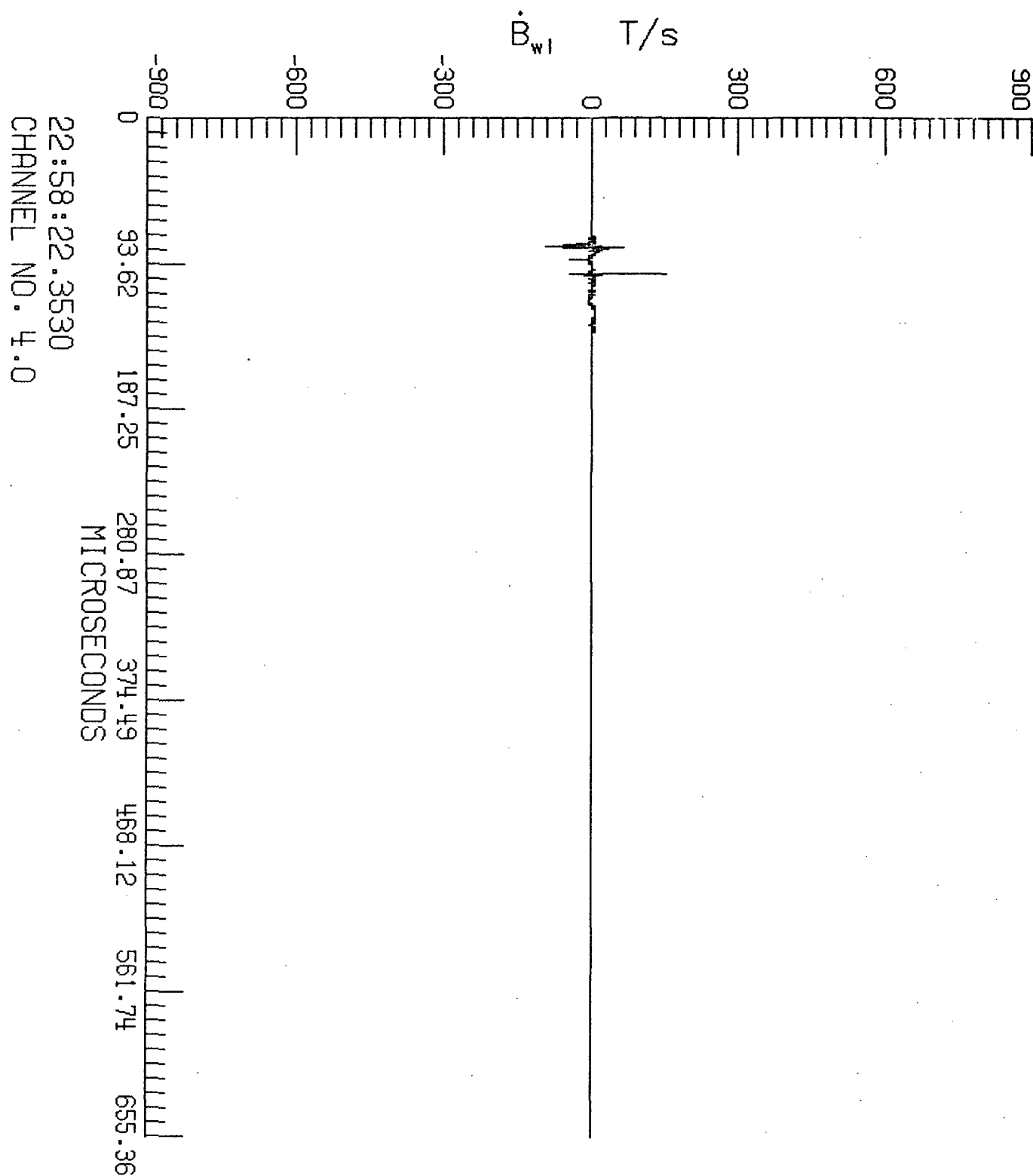


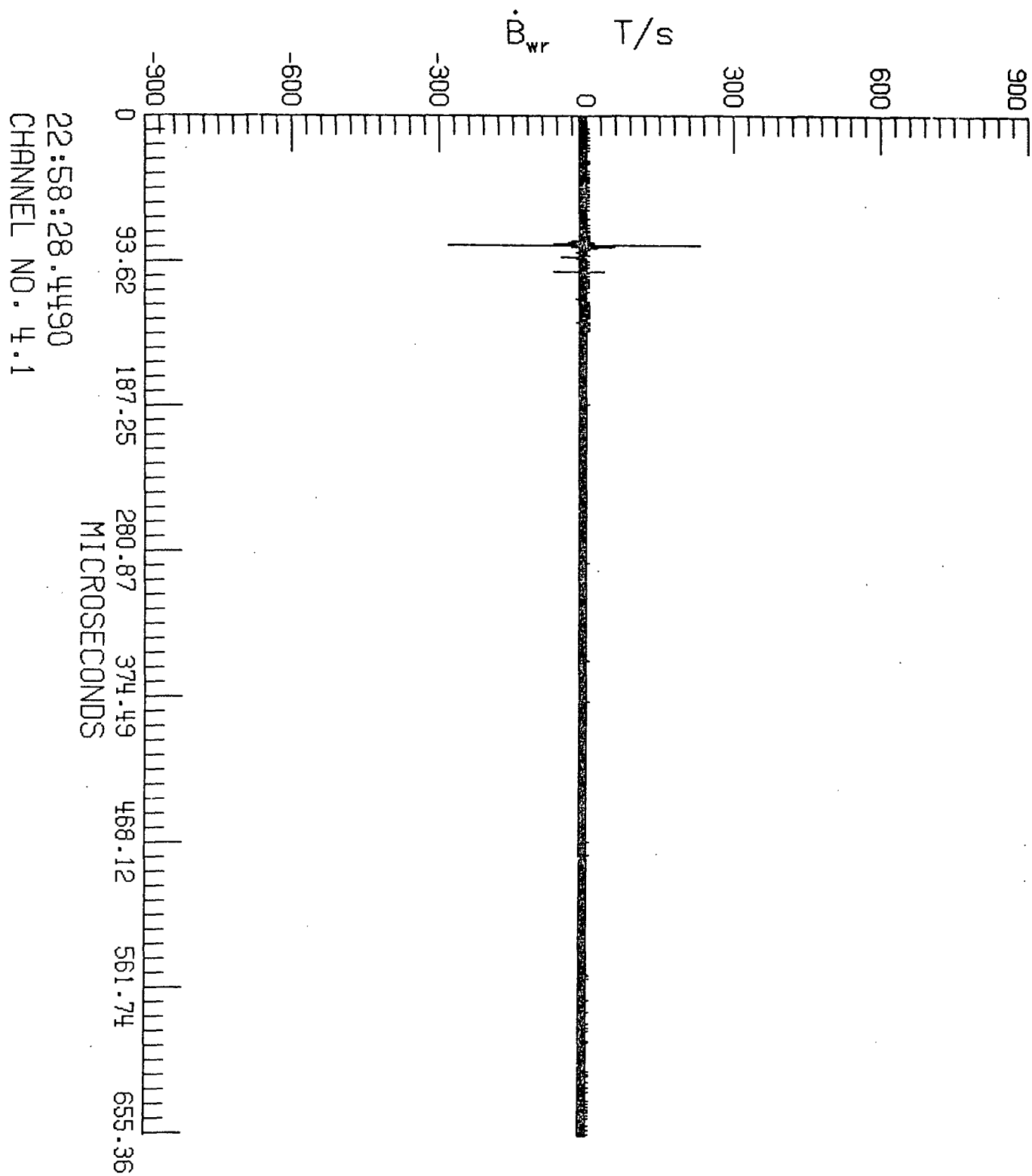


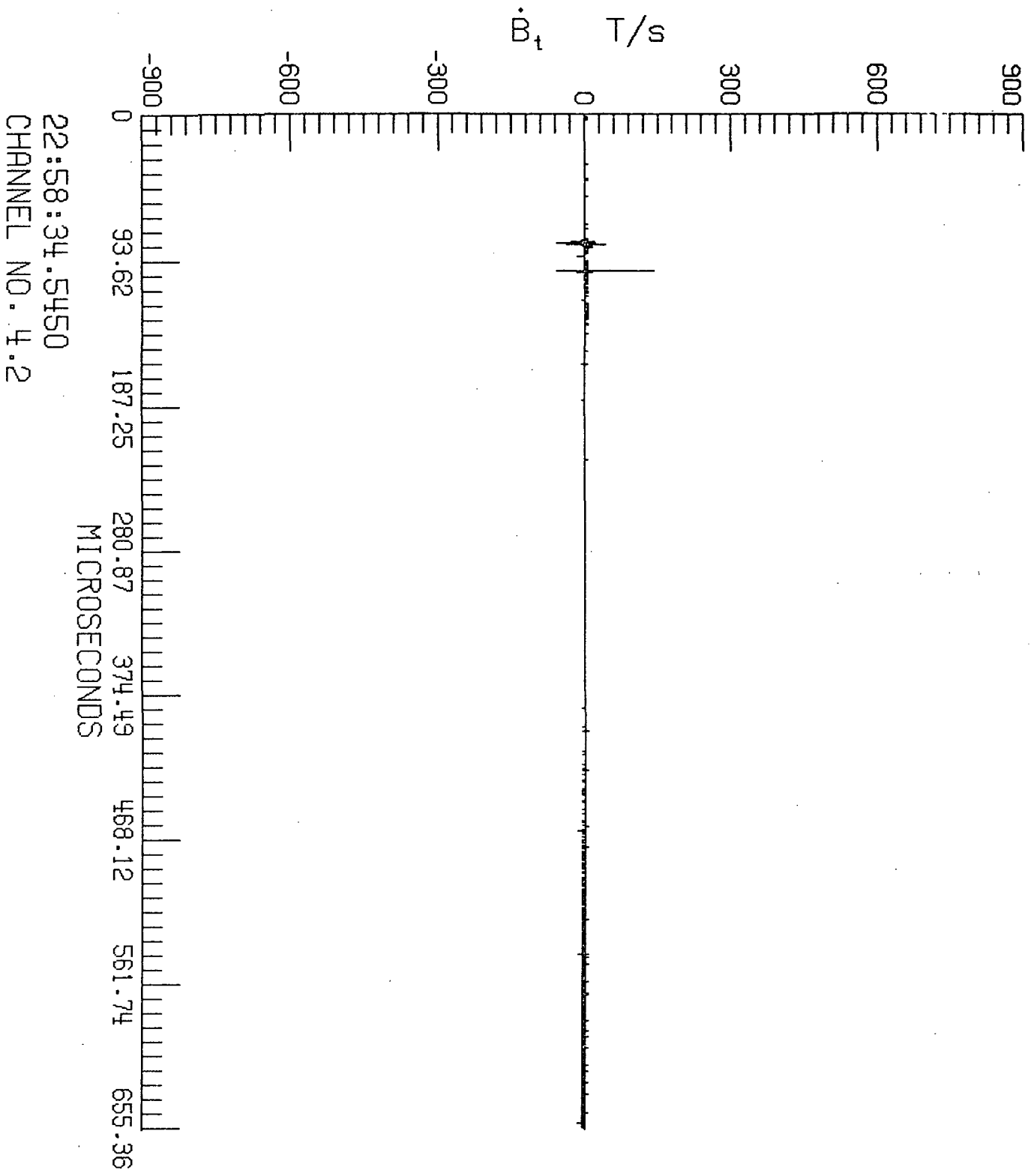


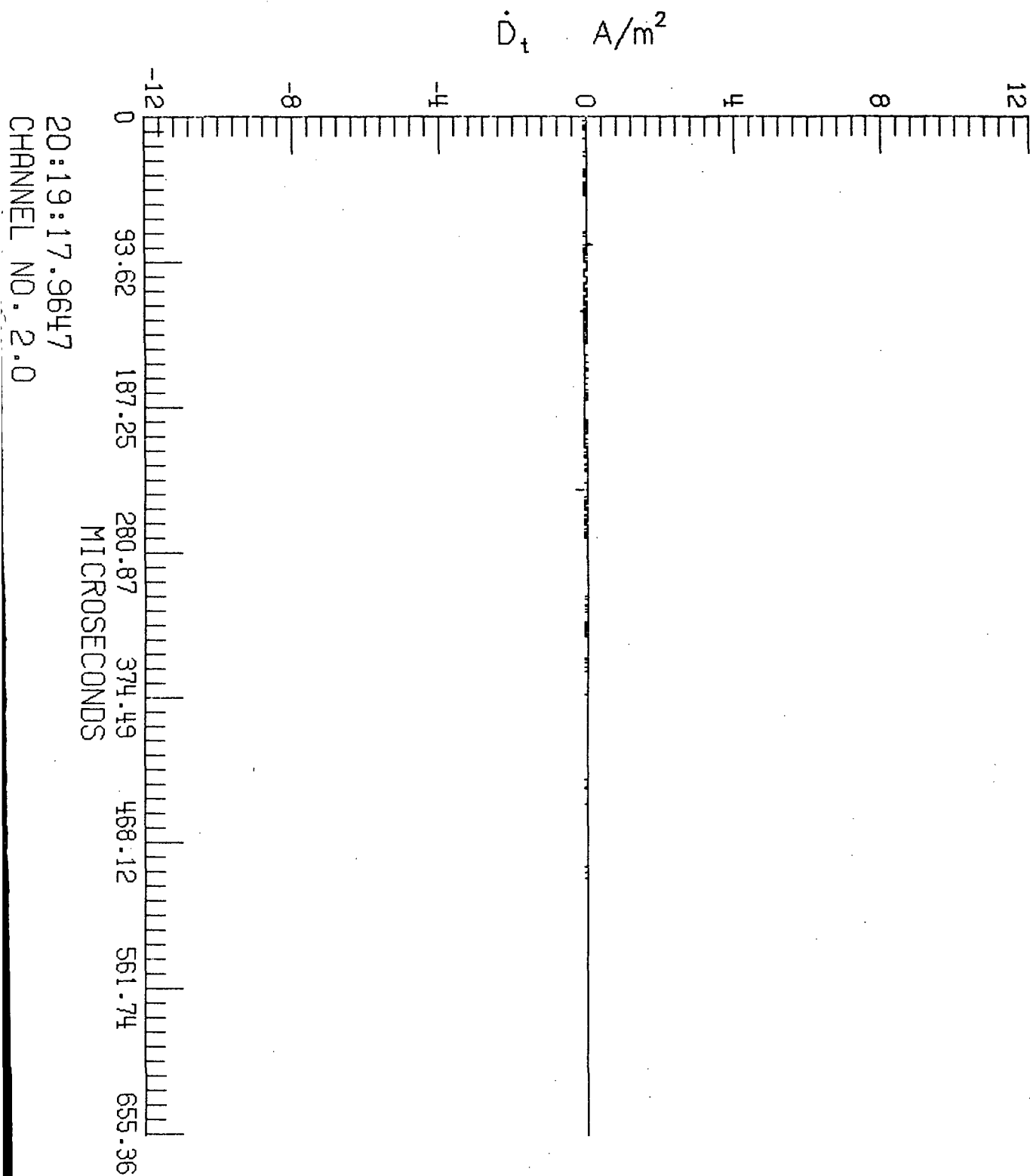
F106 LIGHTNING/TK.5/M.THOMAS

TEST NO.



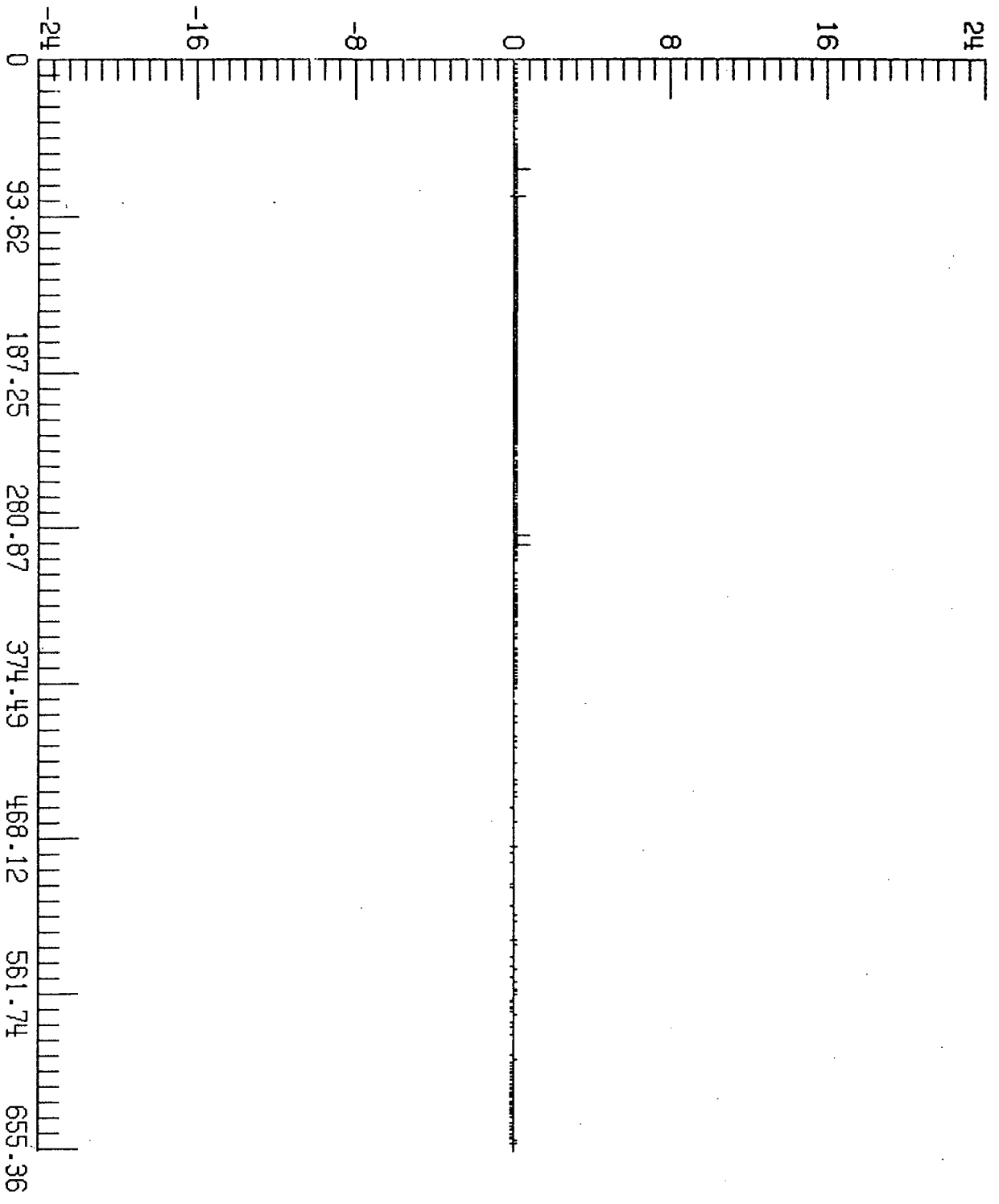






I A/s

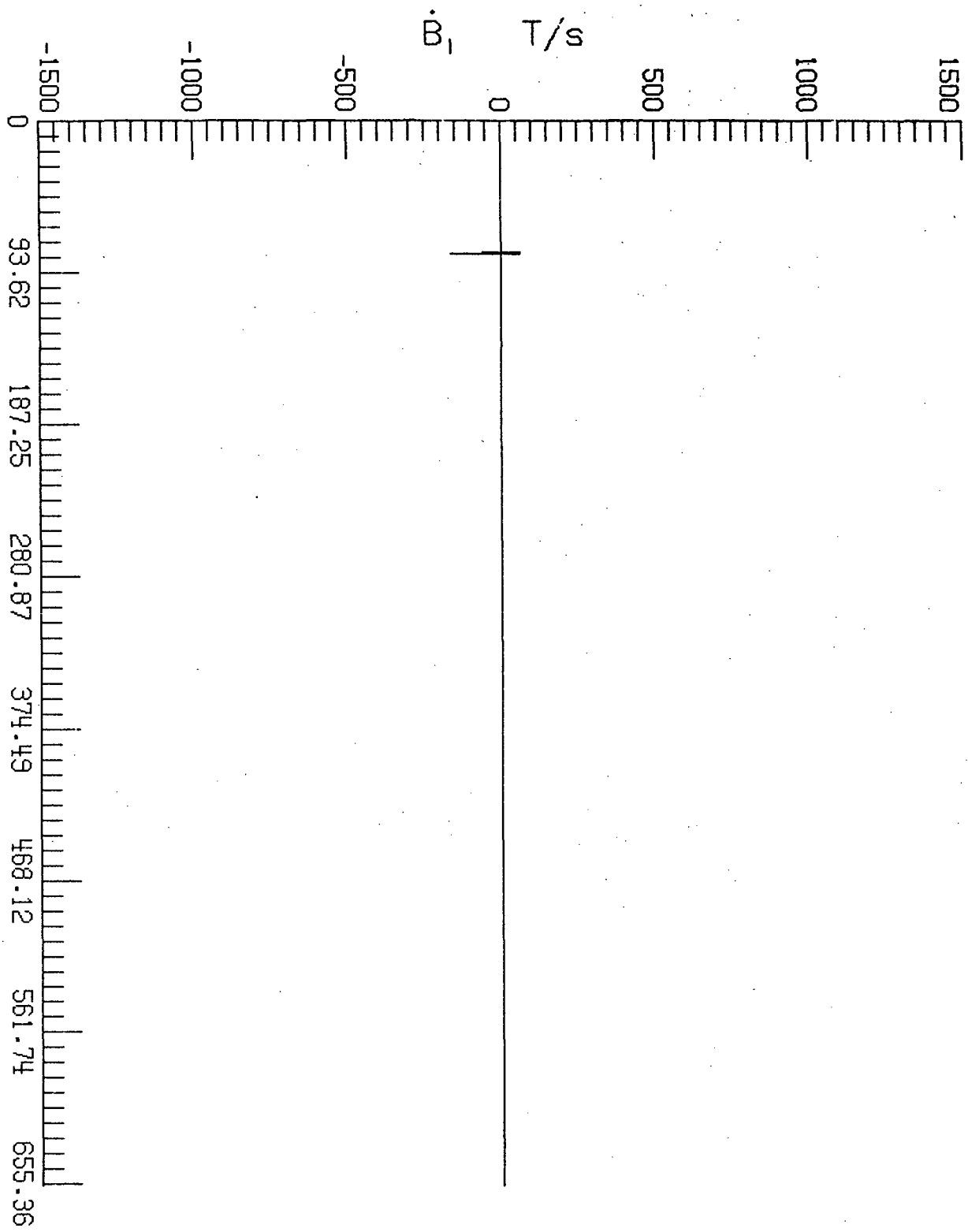
$\times 10^{10}$

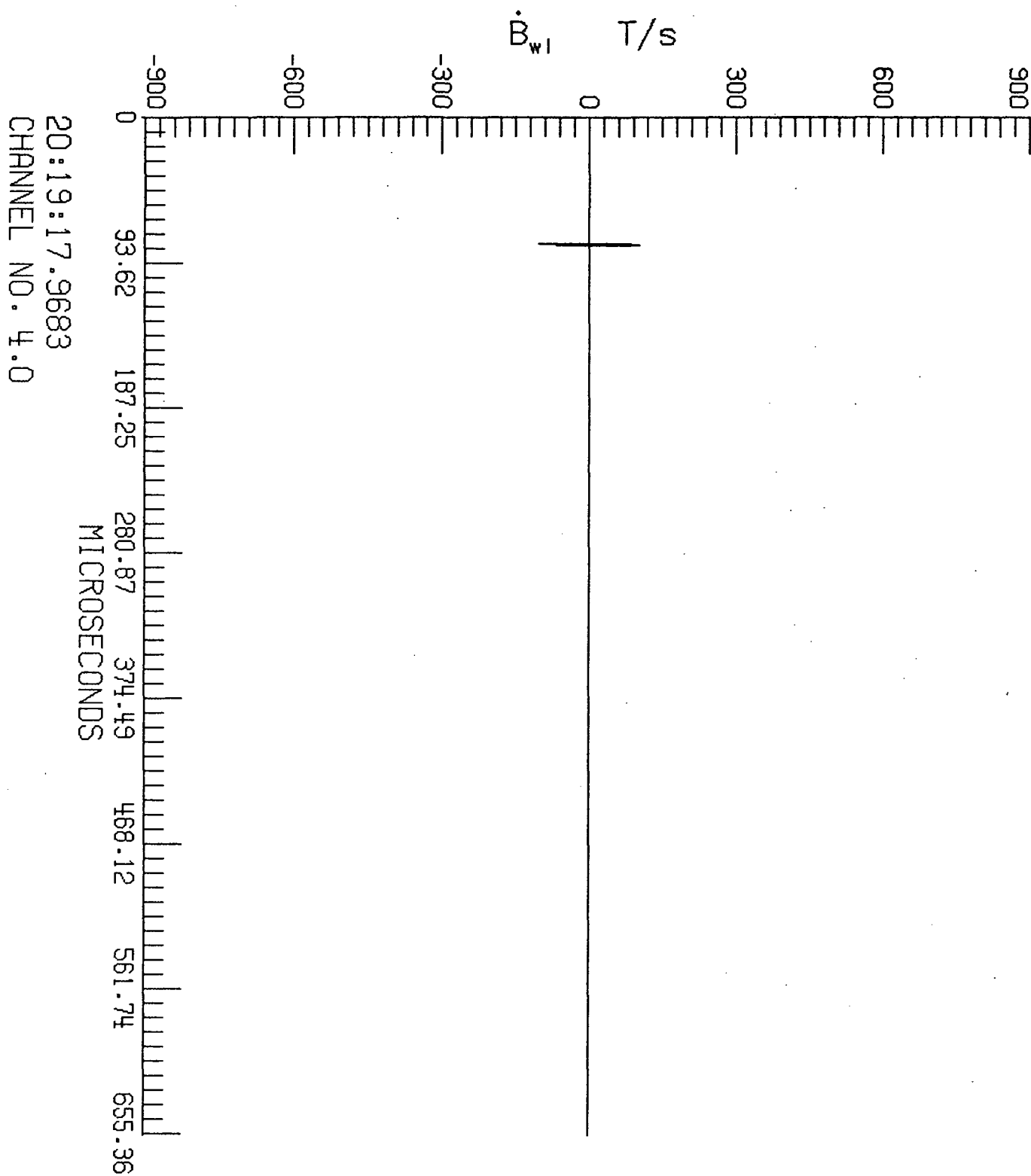


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CHANNEL NO. 2.1

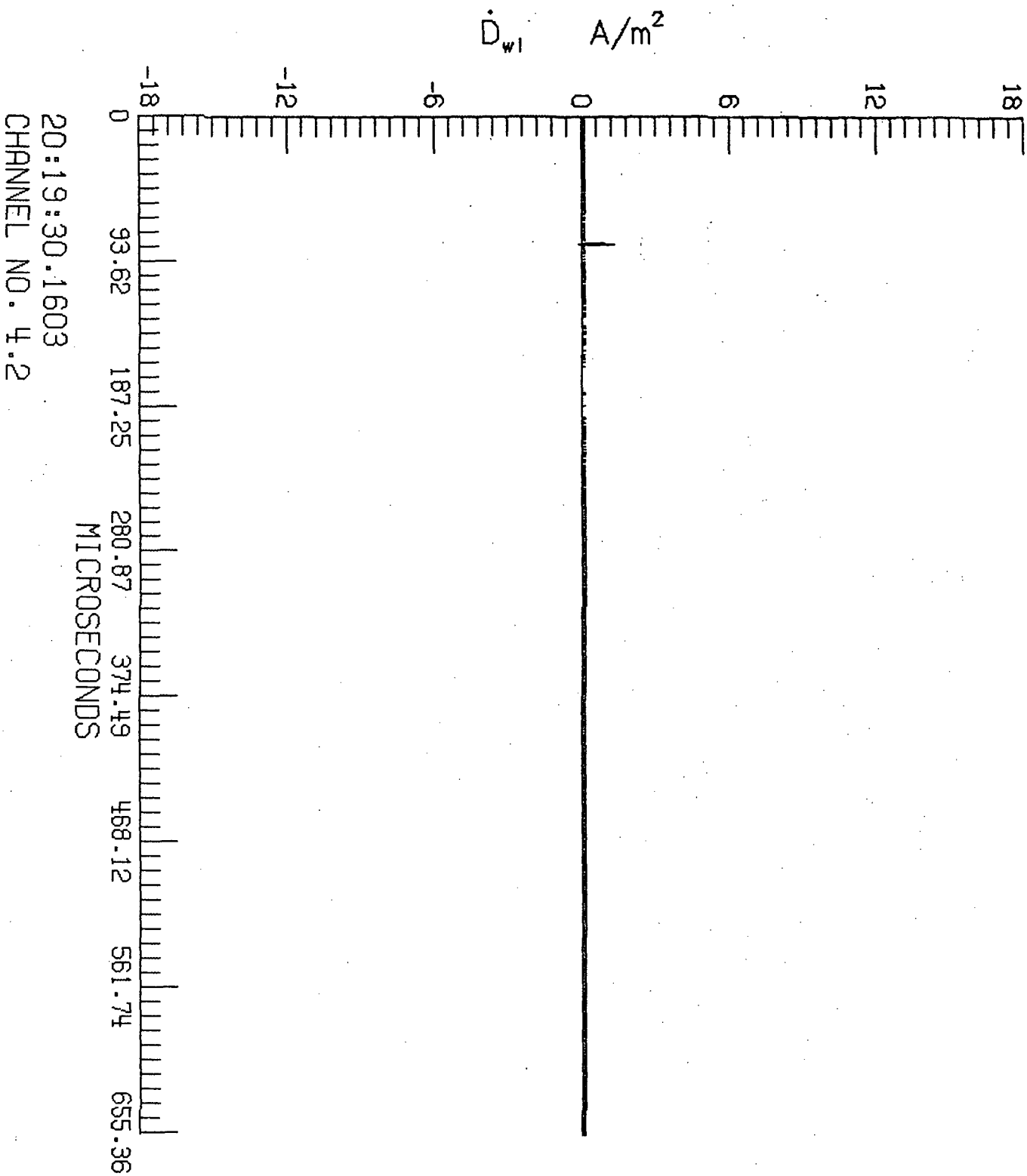
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CHANNEL NO 2 2

MICROSECONDS

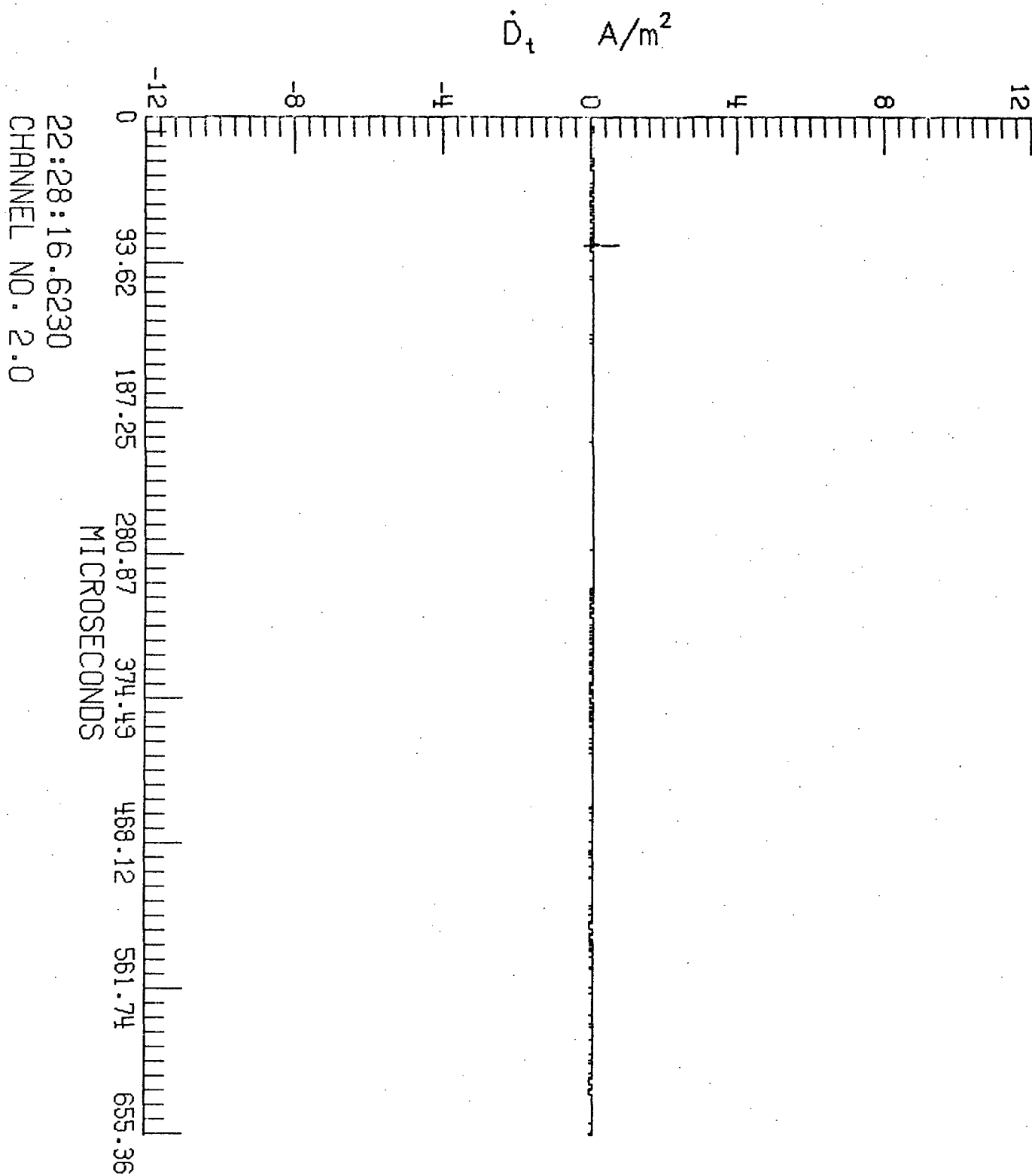


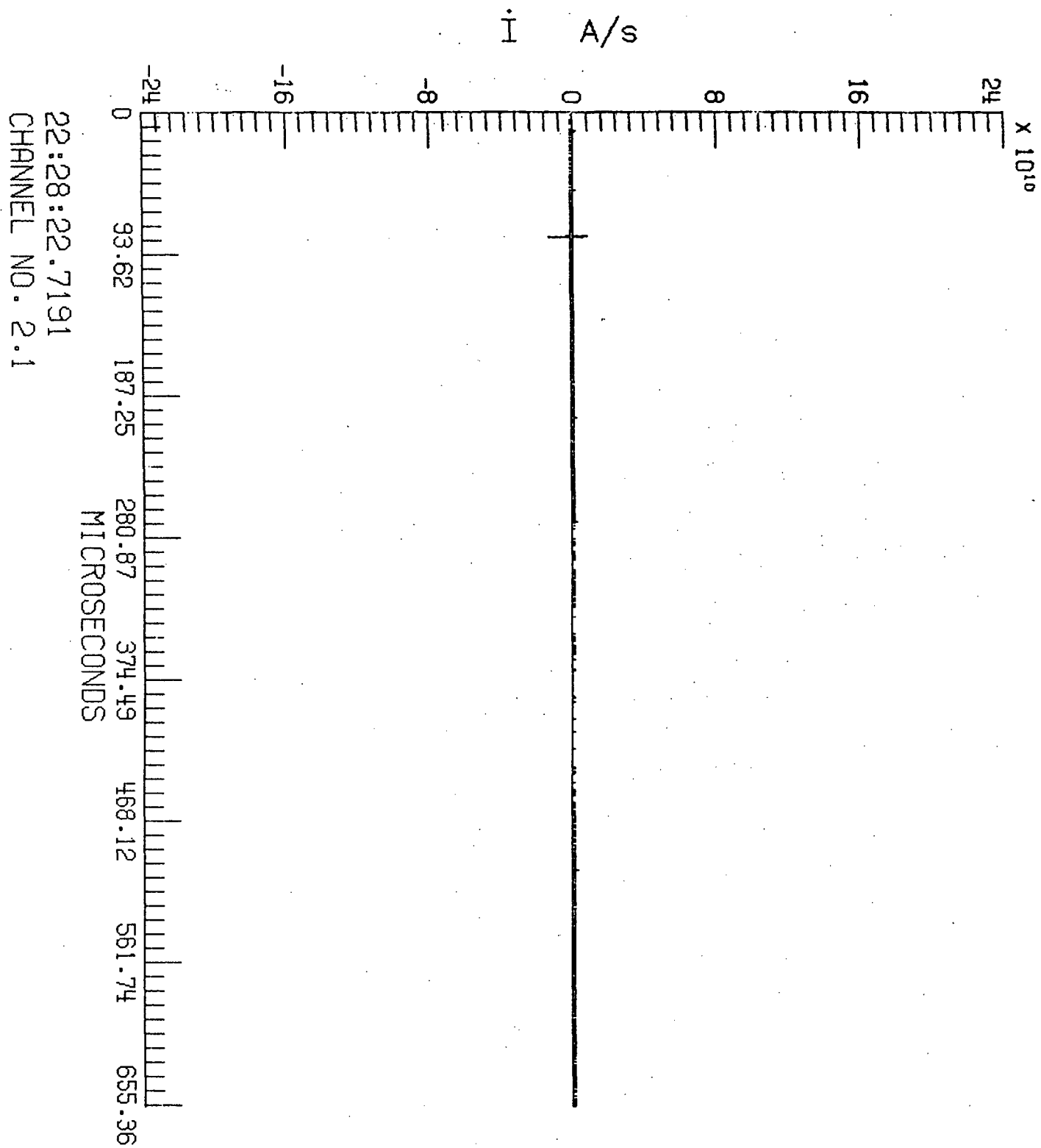


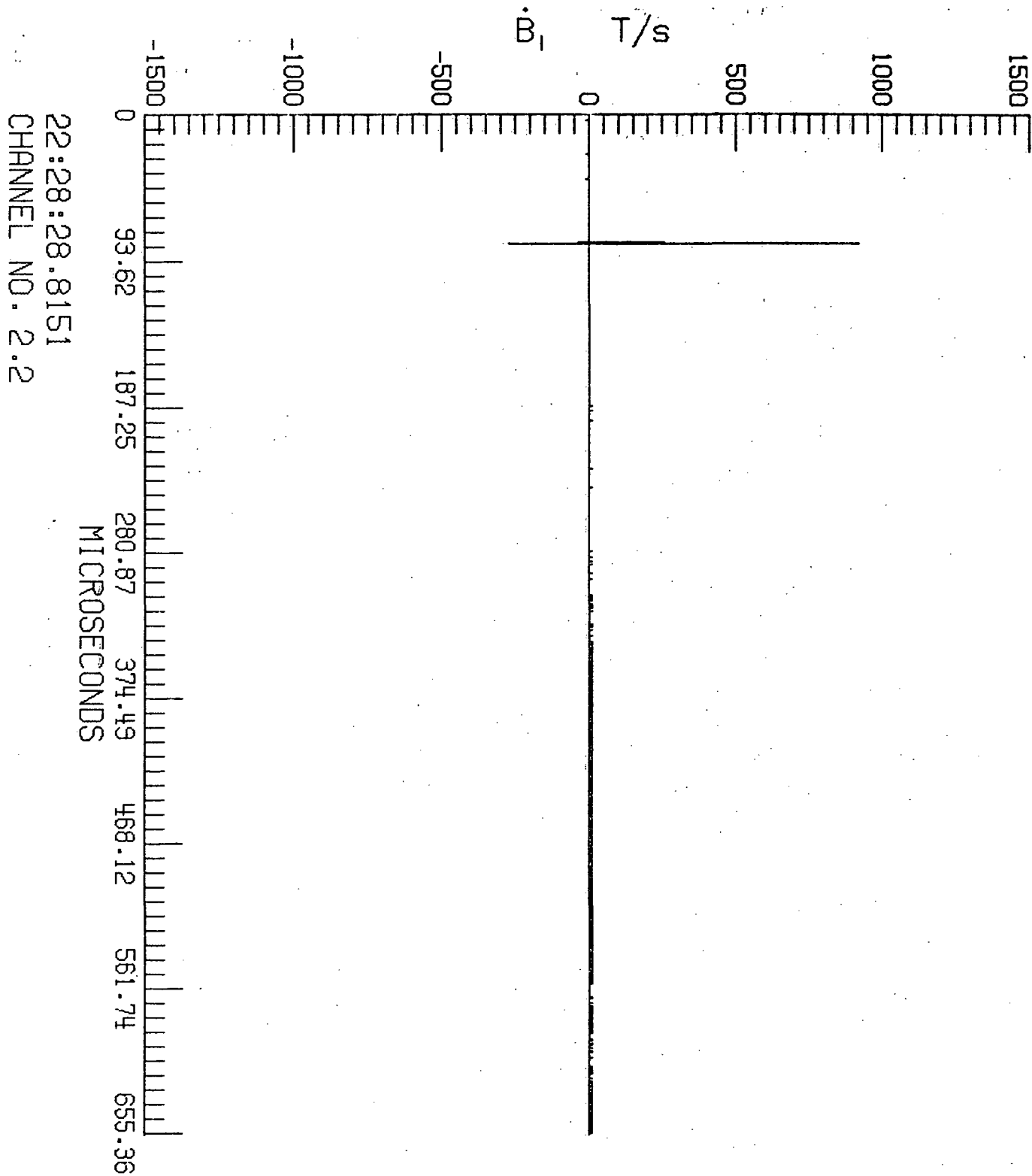
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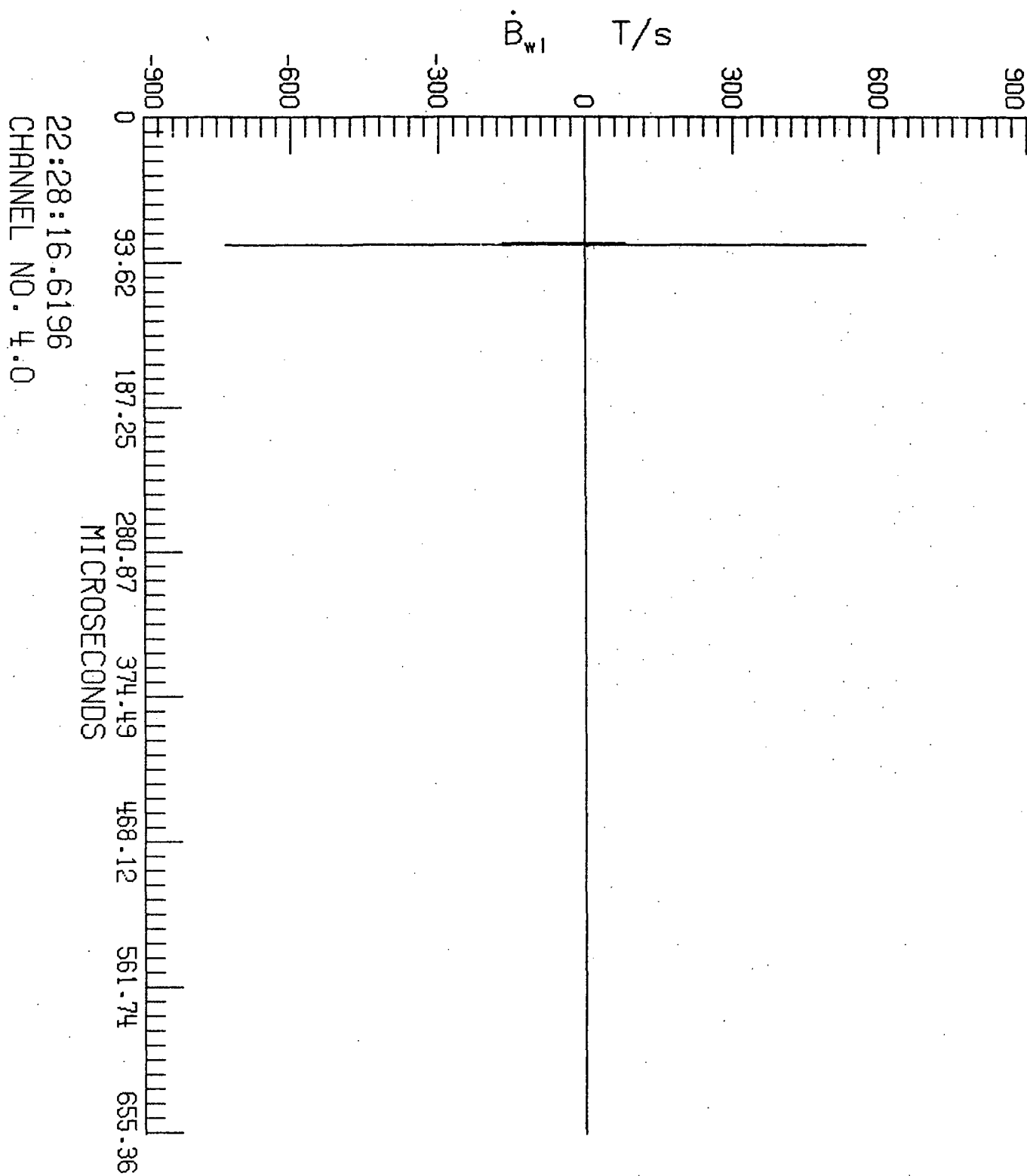


c-2

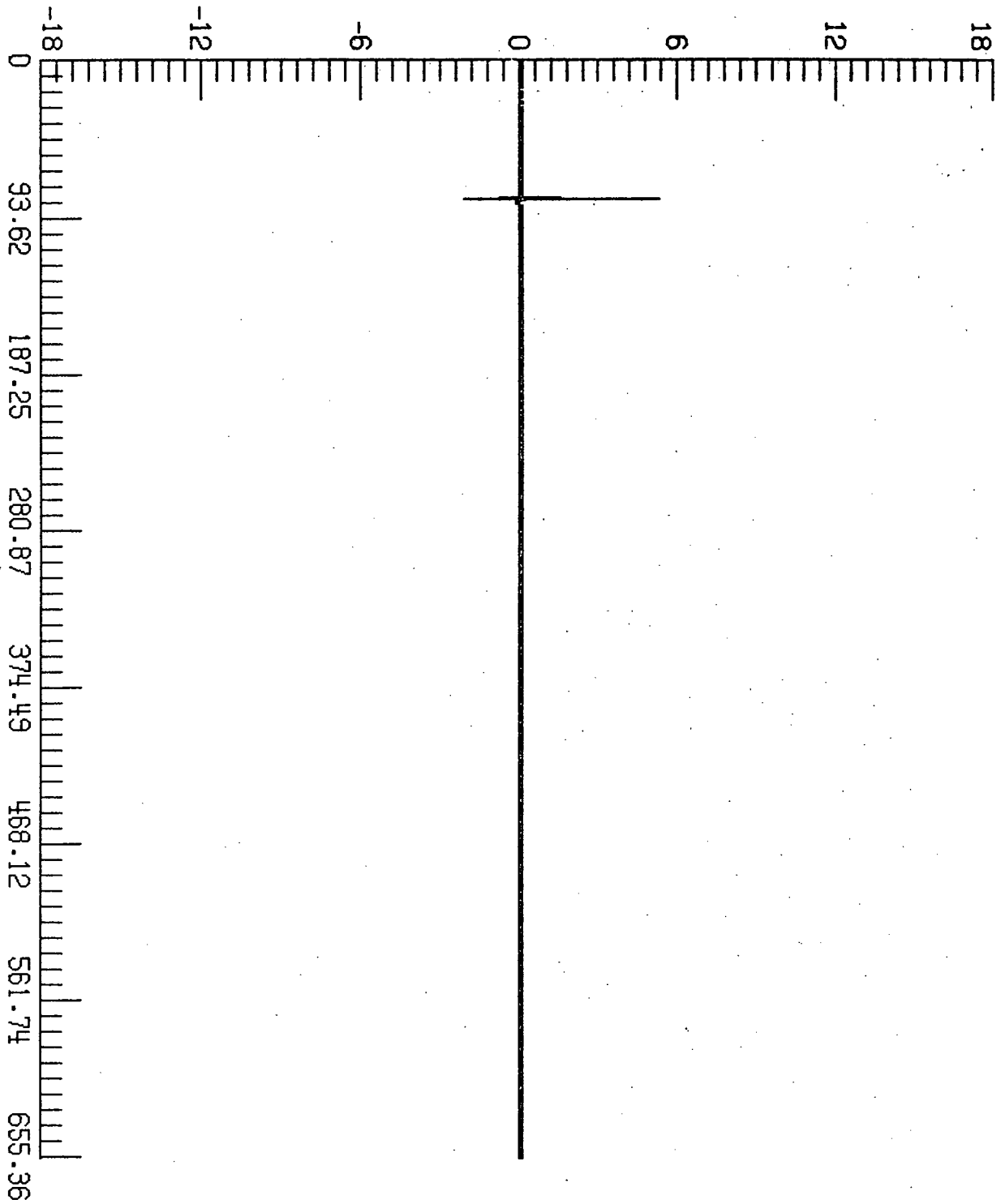








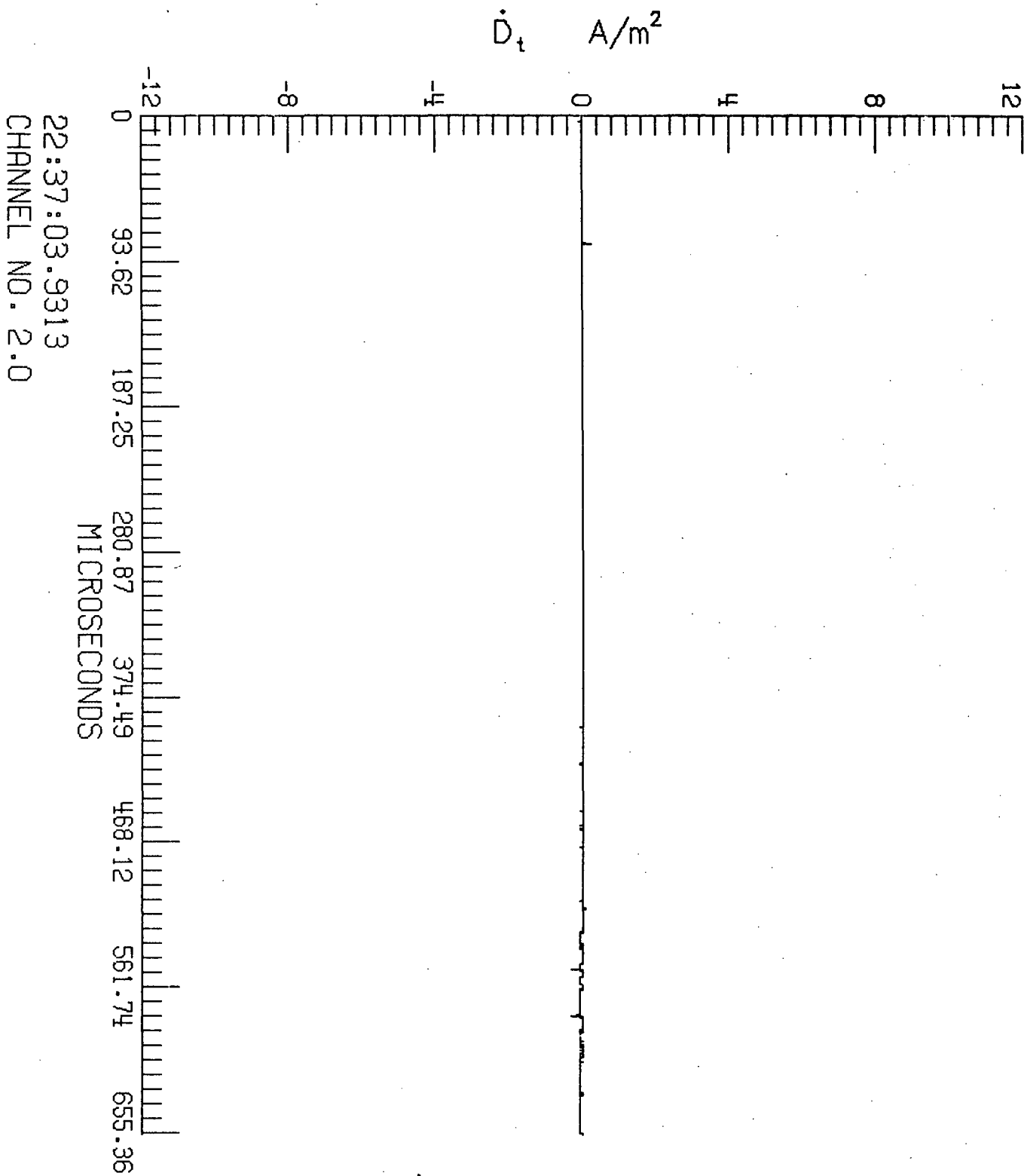
\dot{D}_{wl} A/m^2



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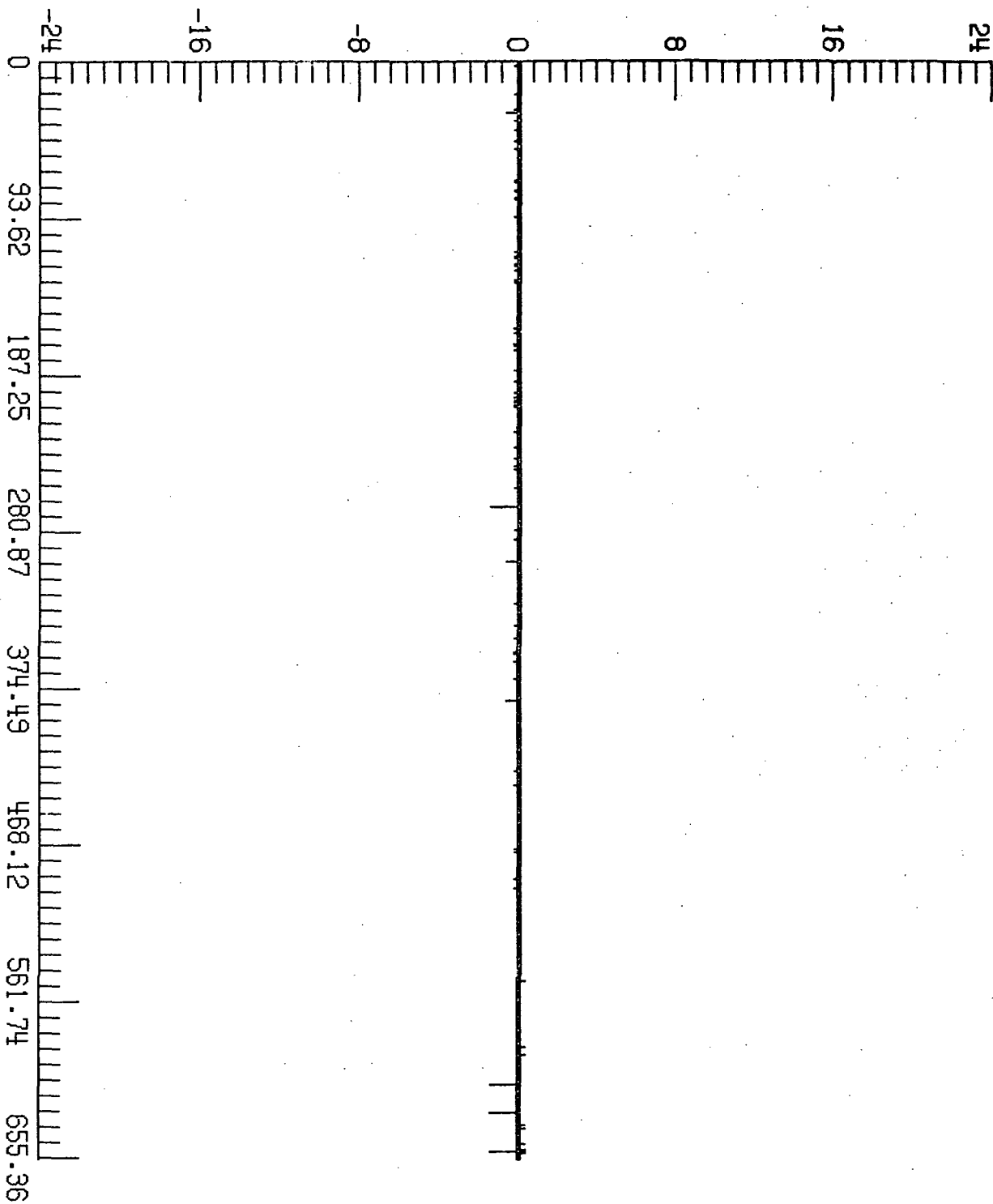
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MICROSECONDS

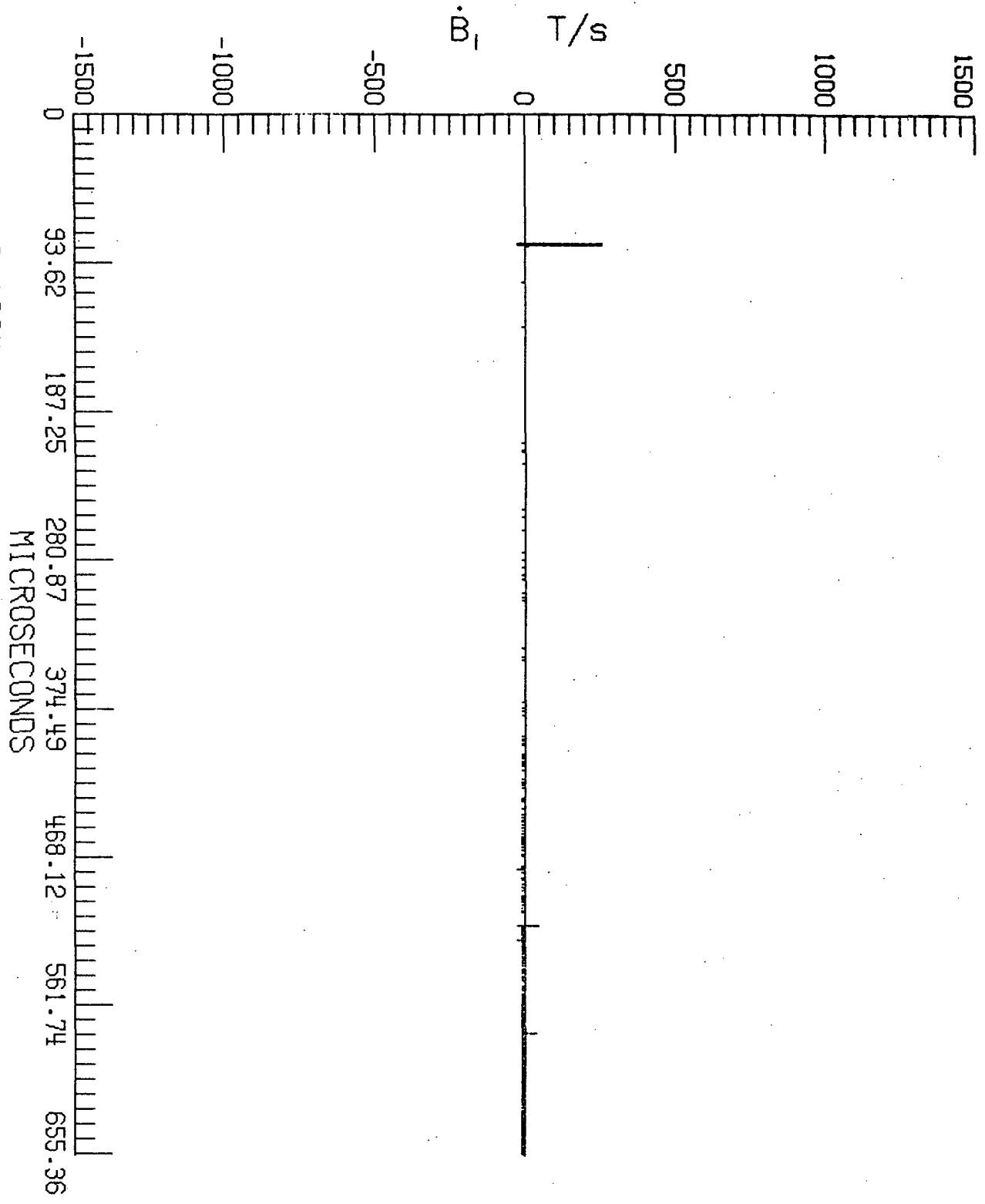


i A/s

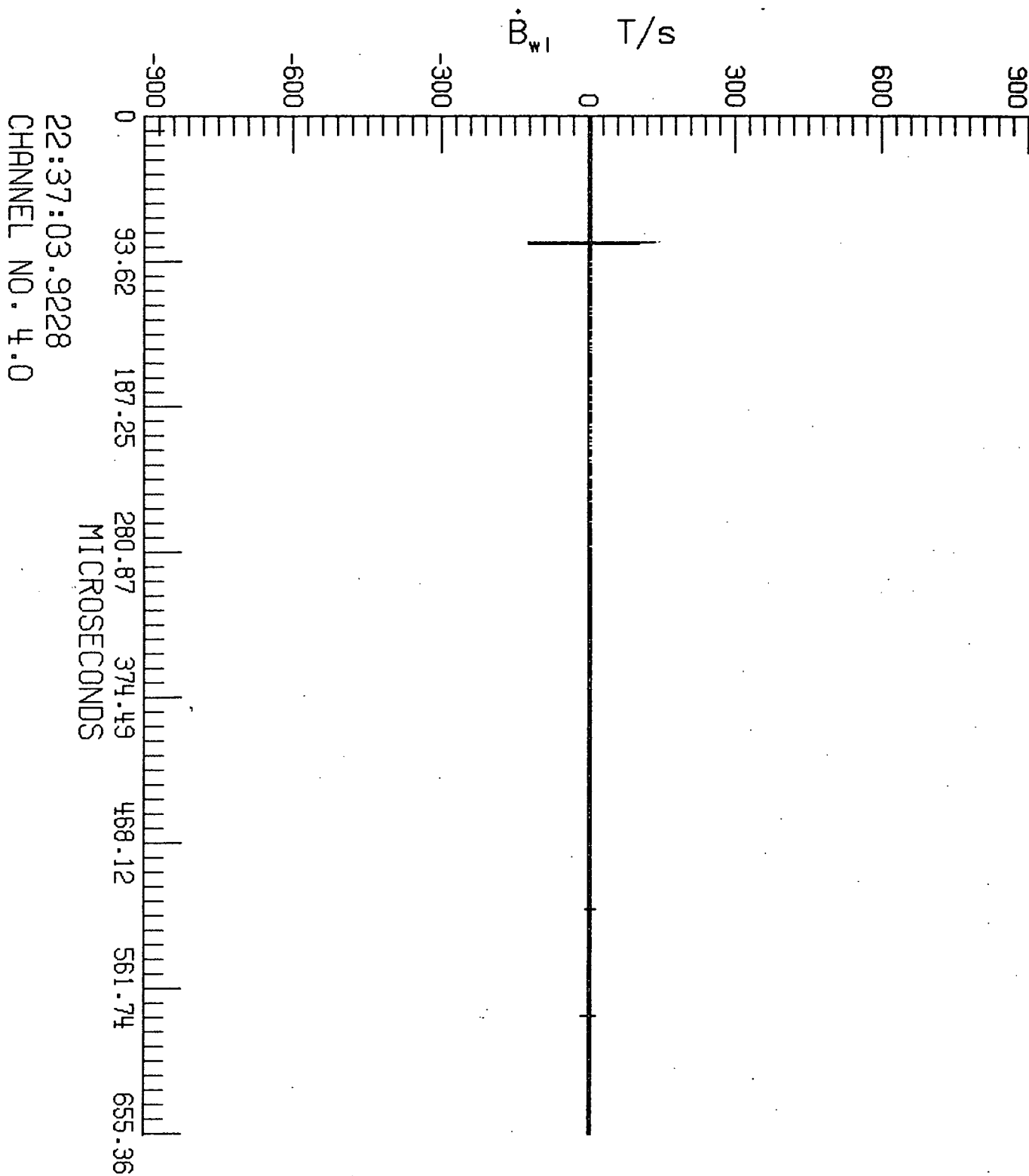
x 10¹⁰



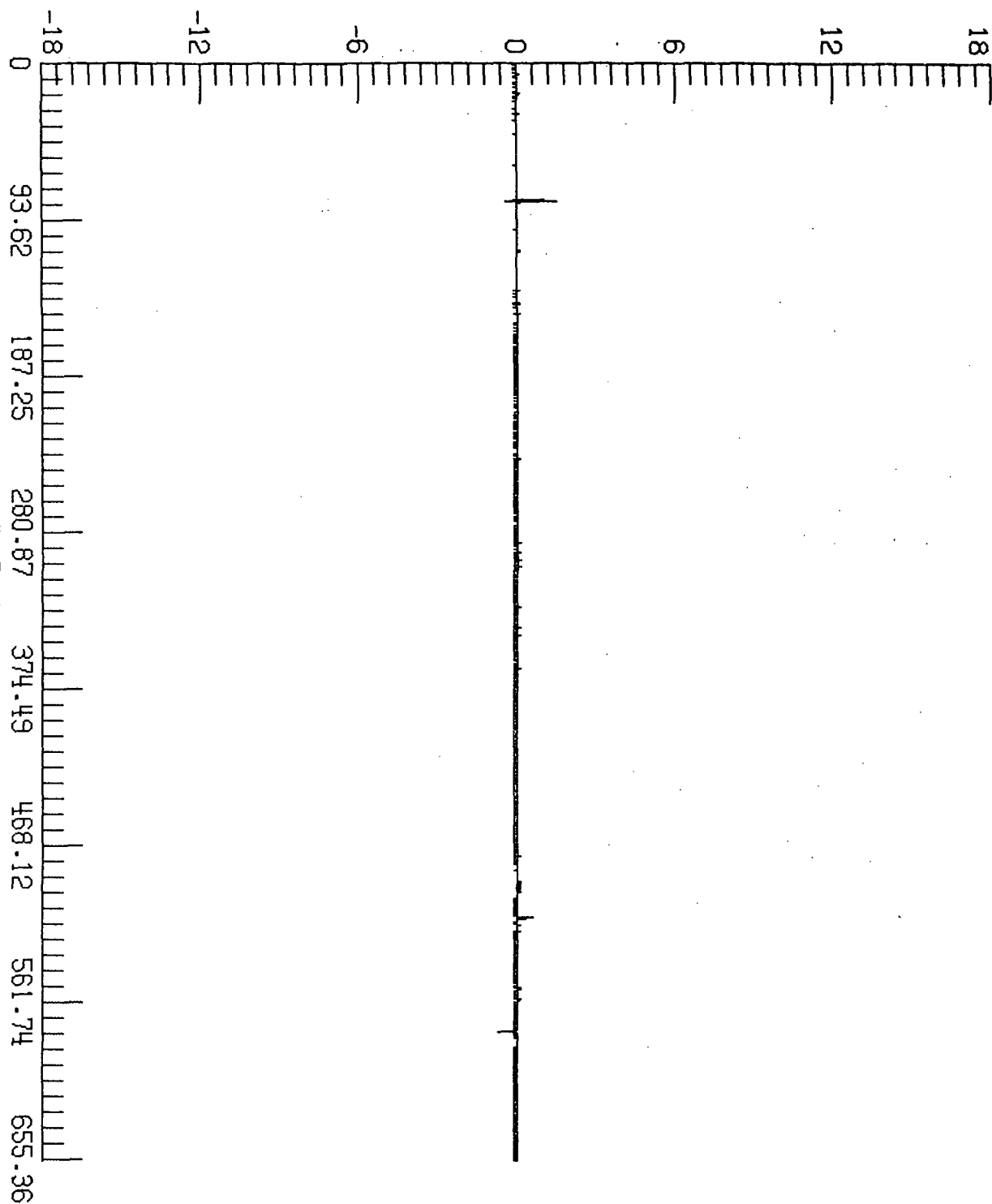
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CHANNEL NO. 2.1



22:37:16.1234
CHANNEL NO. 2.2



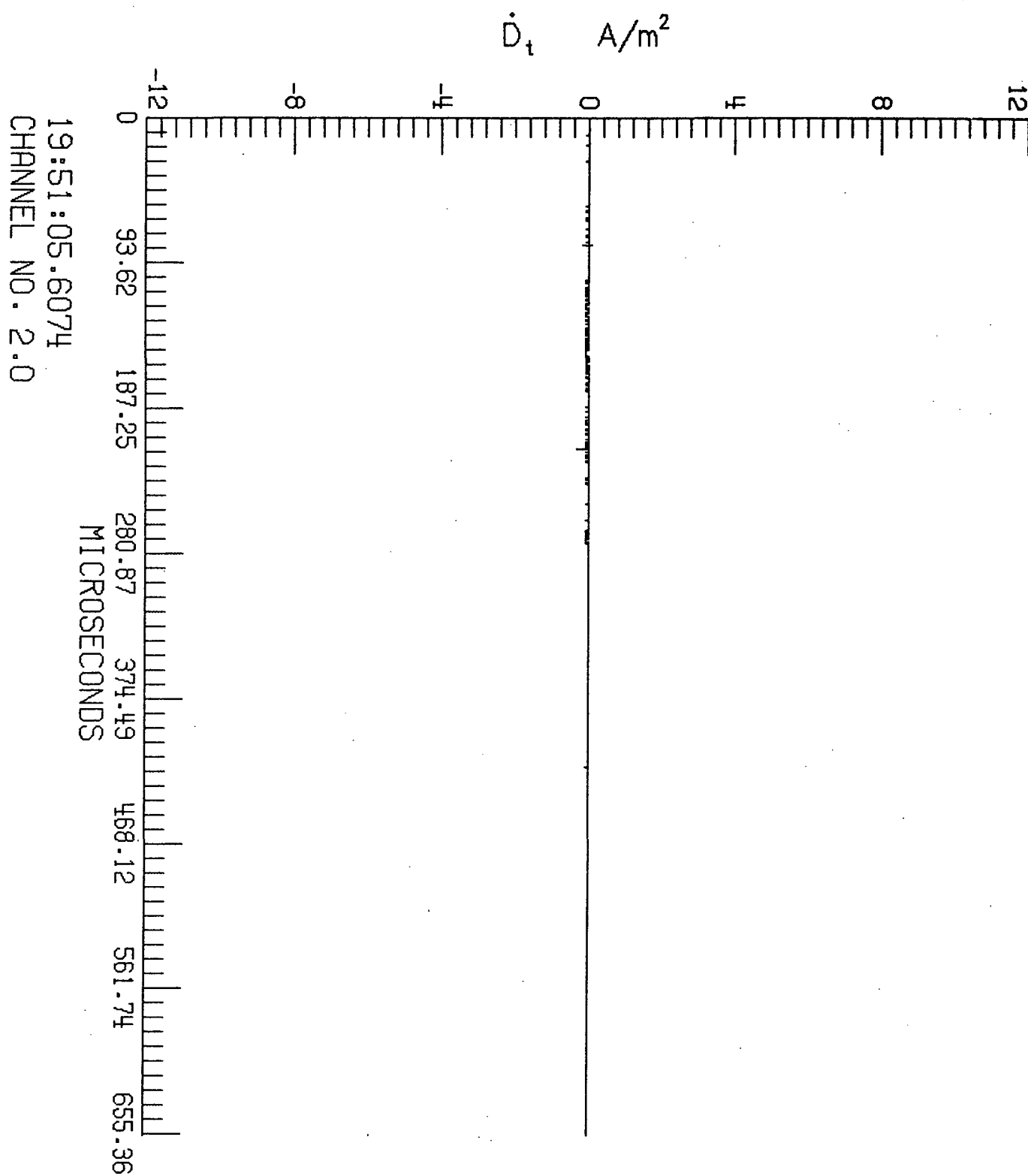
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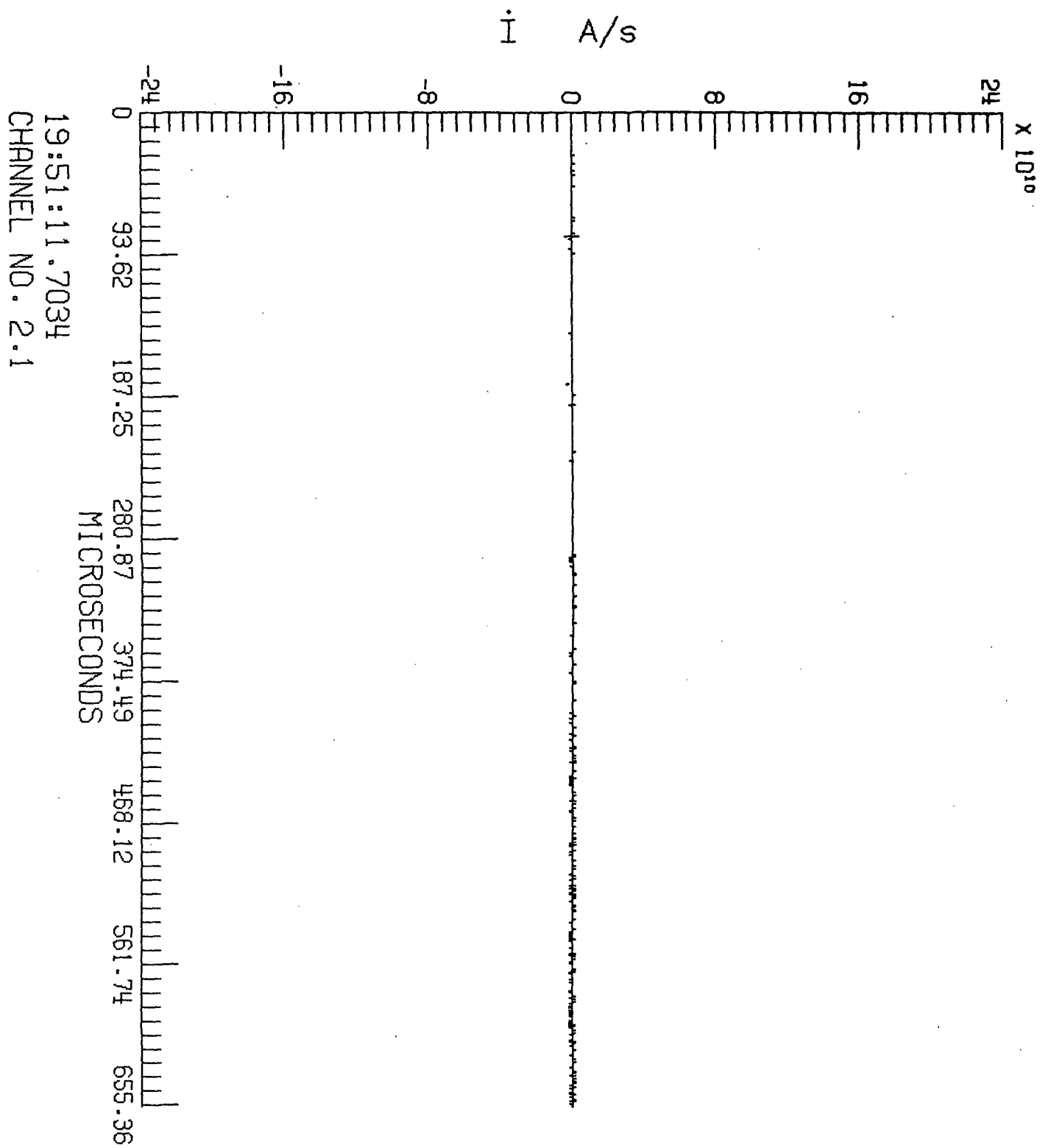


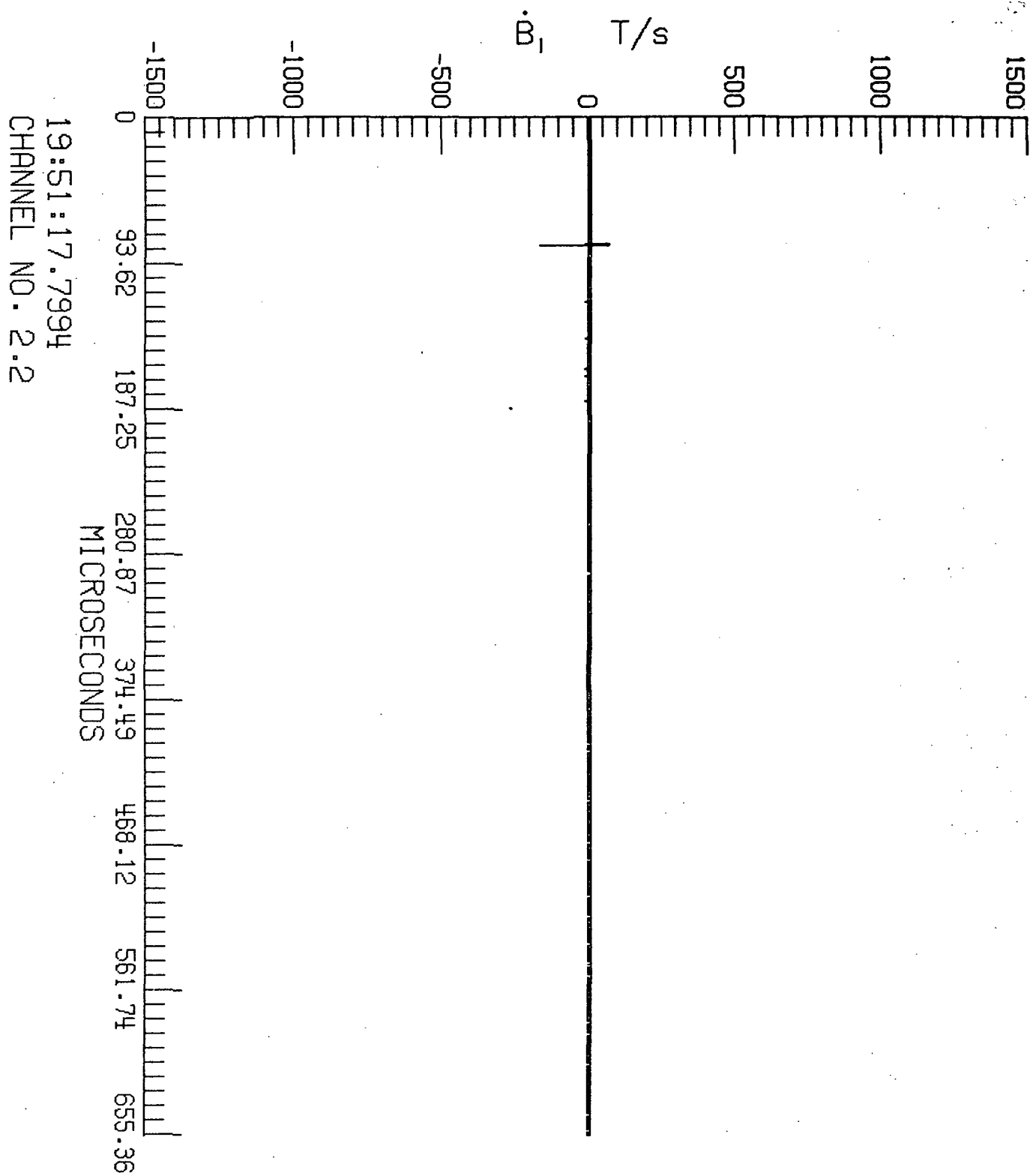
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CHANNEL NO. 4.2

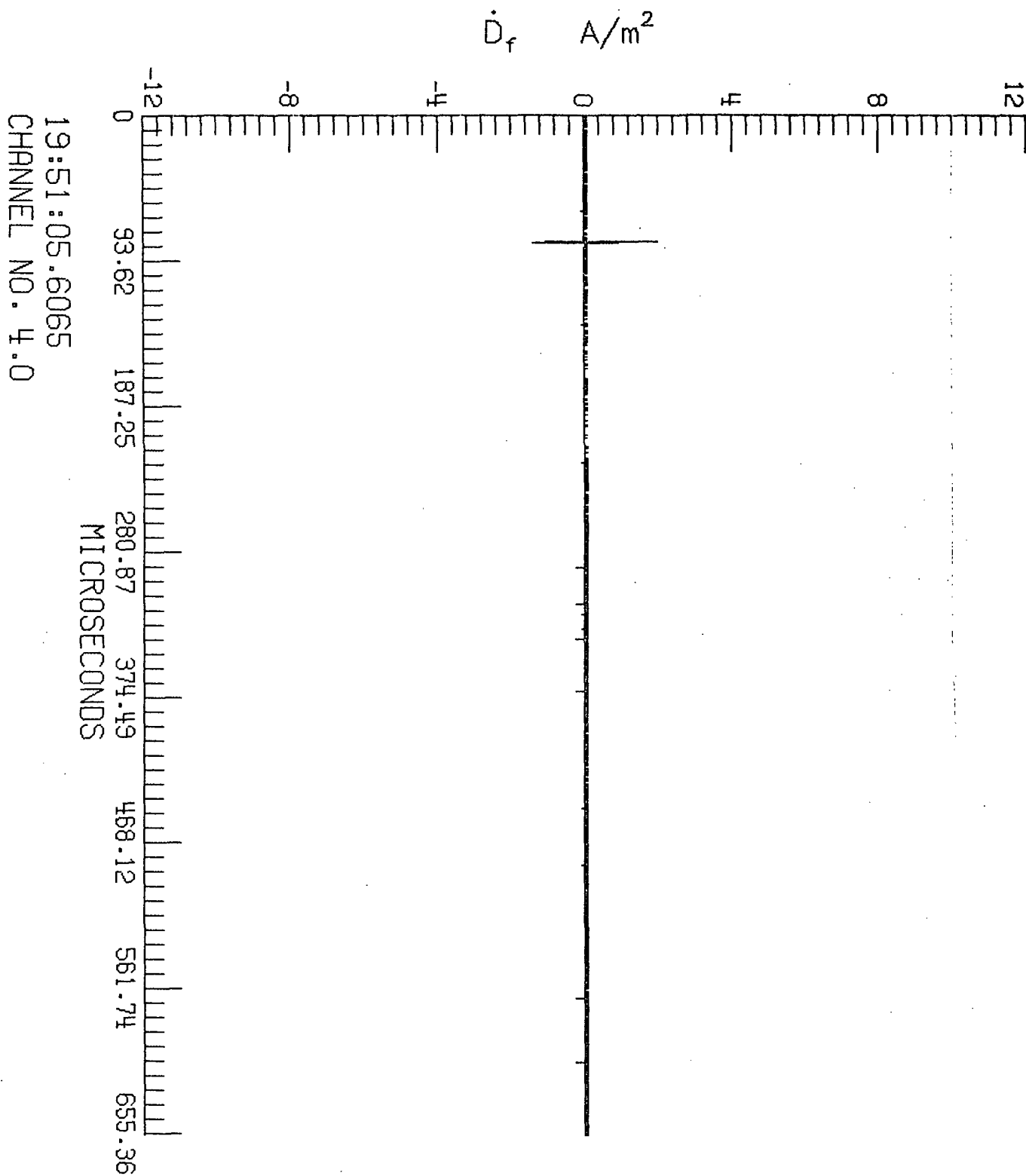
F106 LIGHTNING/TK.3/M.THOMAS

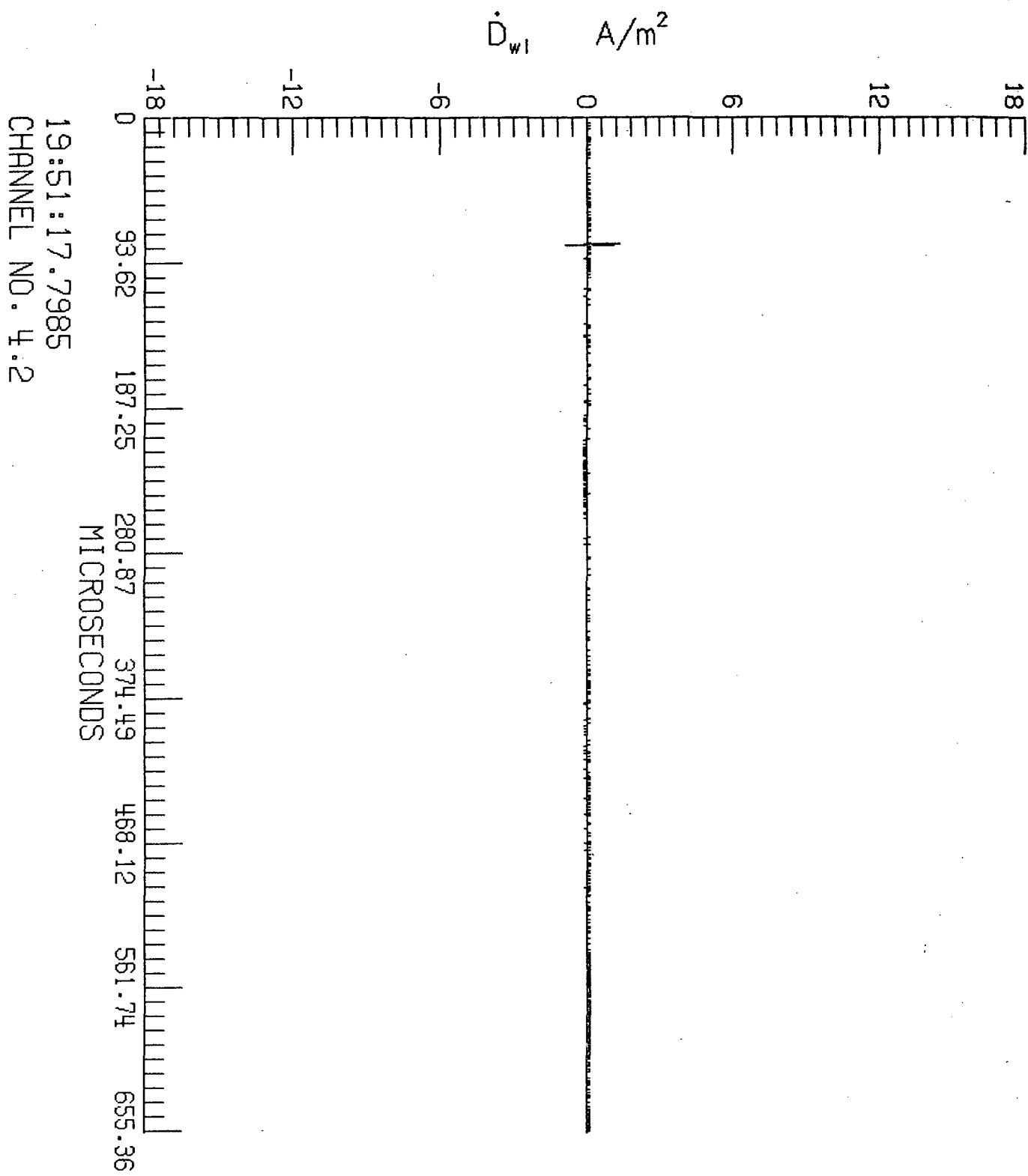
TEST NO. 83-05



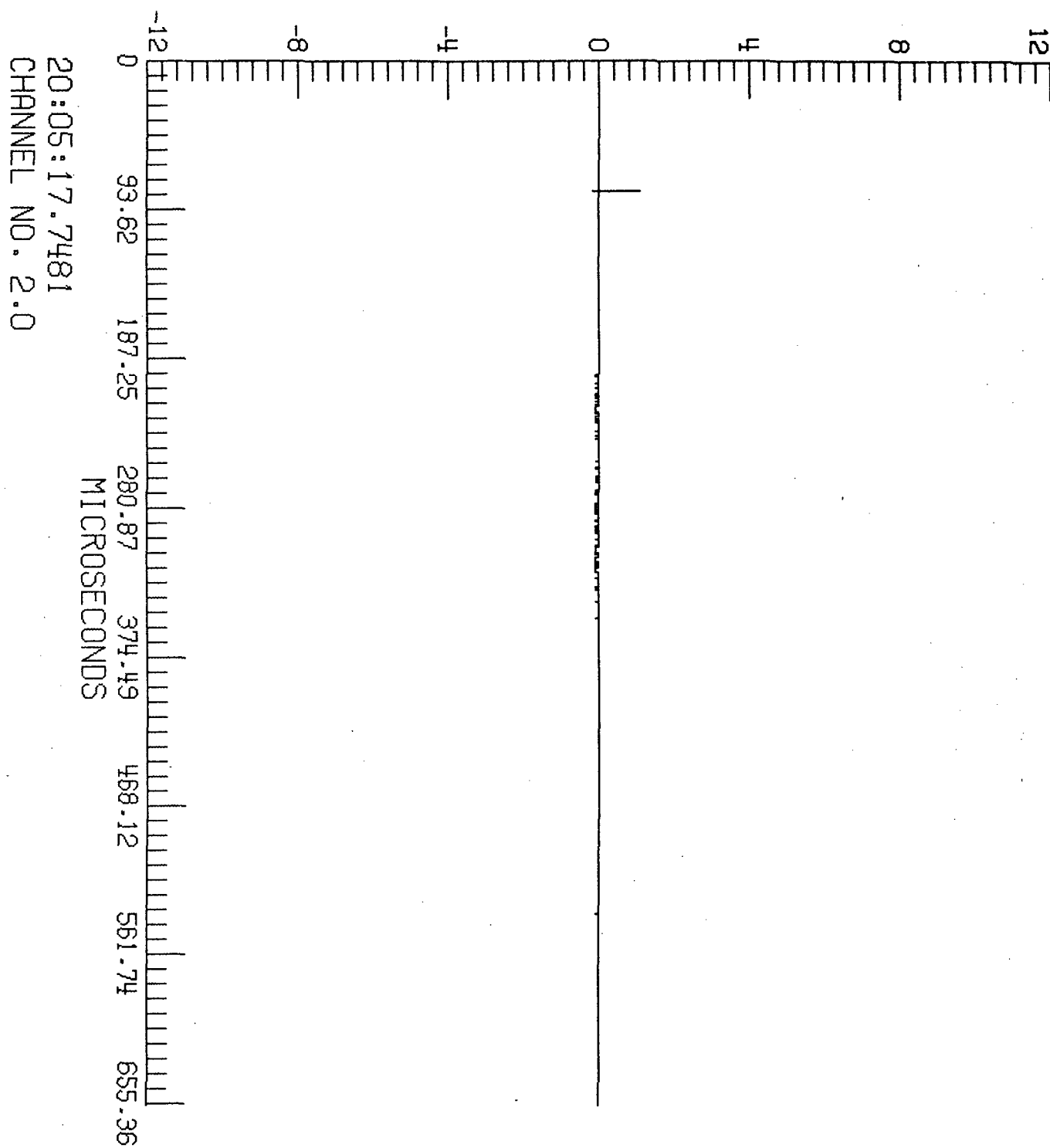






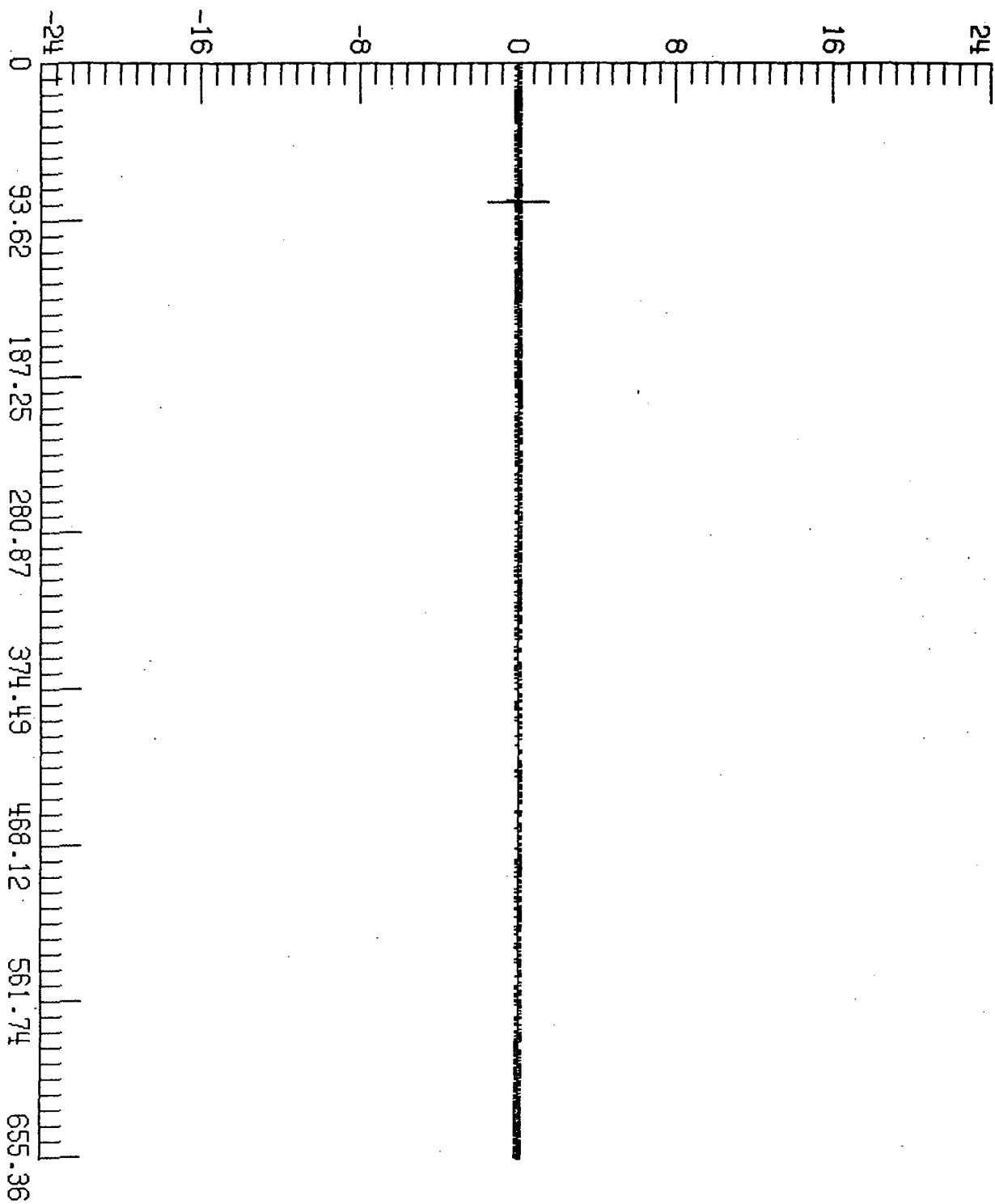


\dot{D}_t A/m²

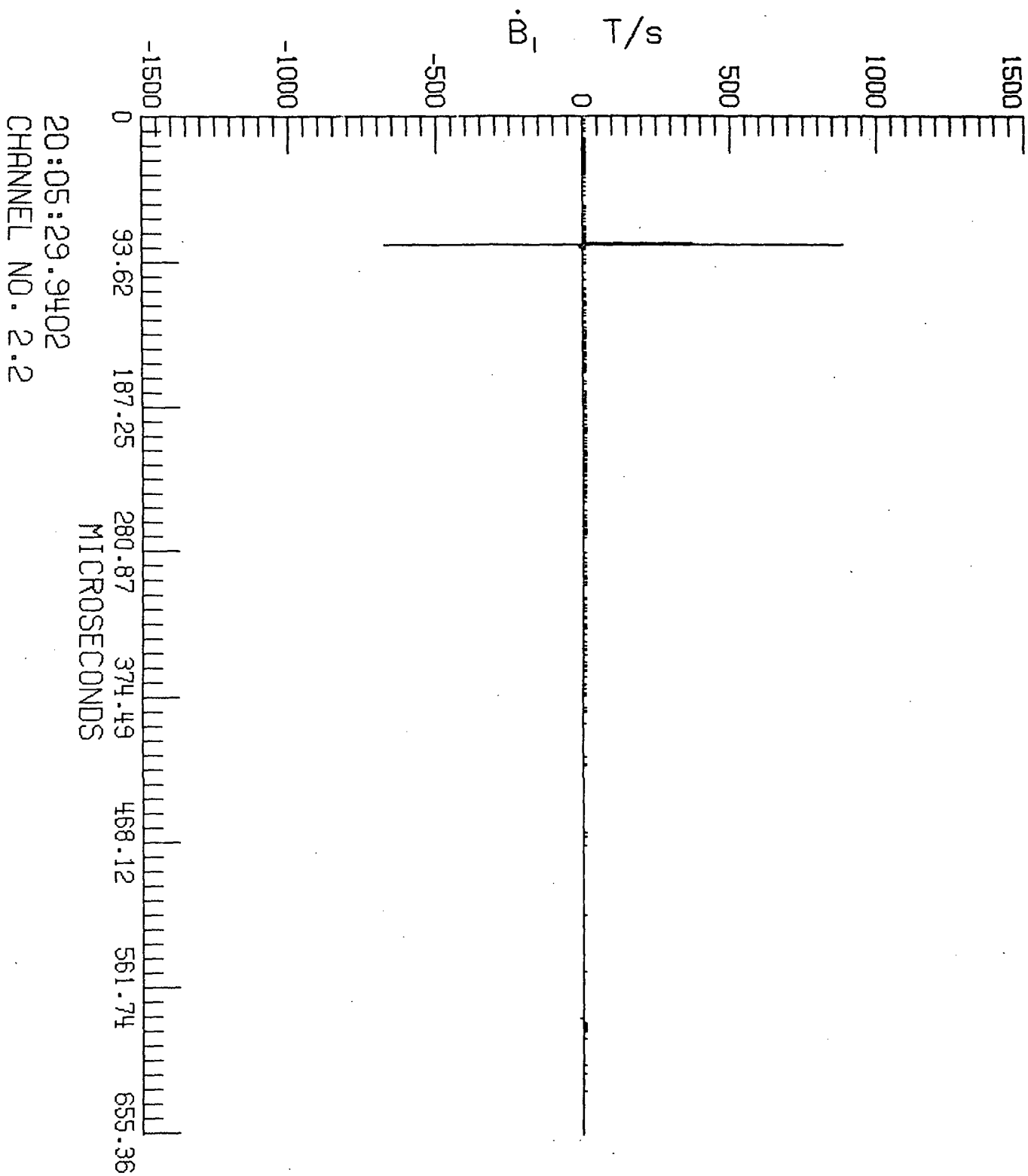


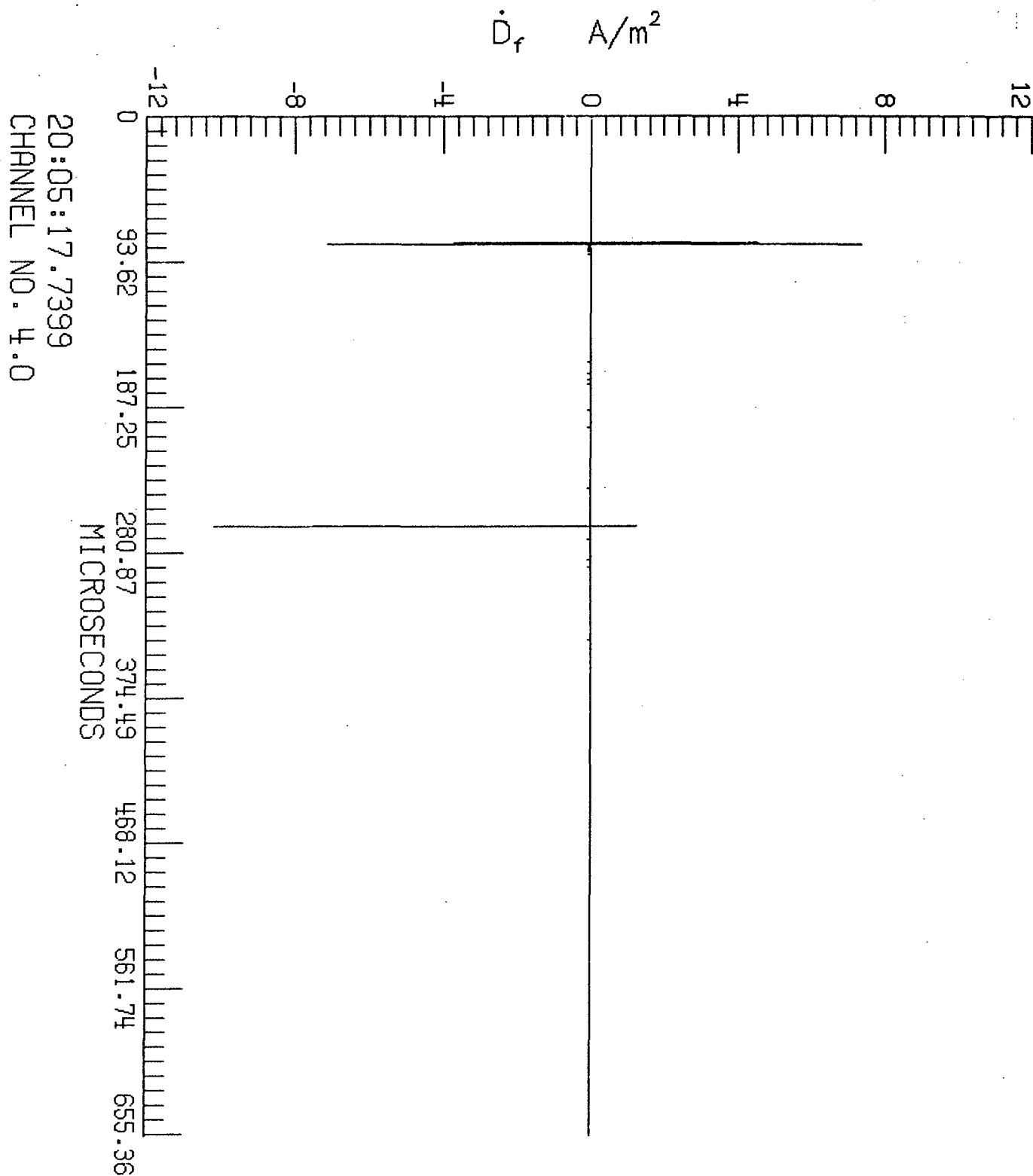
x 10¹⁰

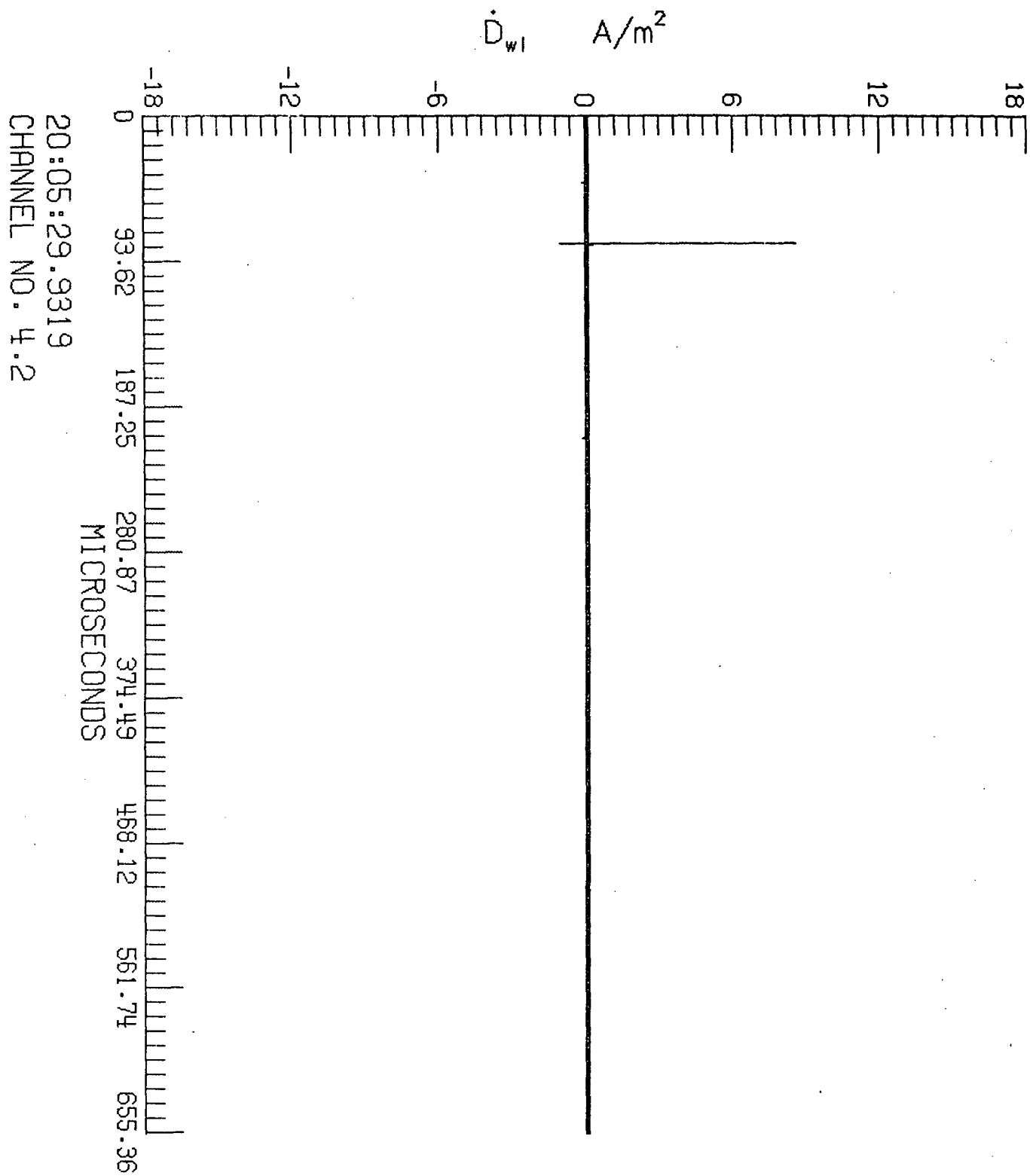
I A/s

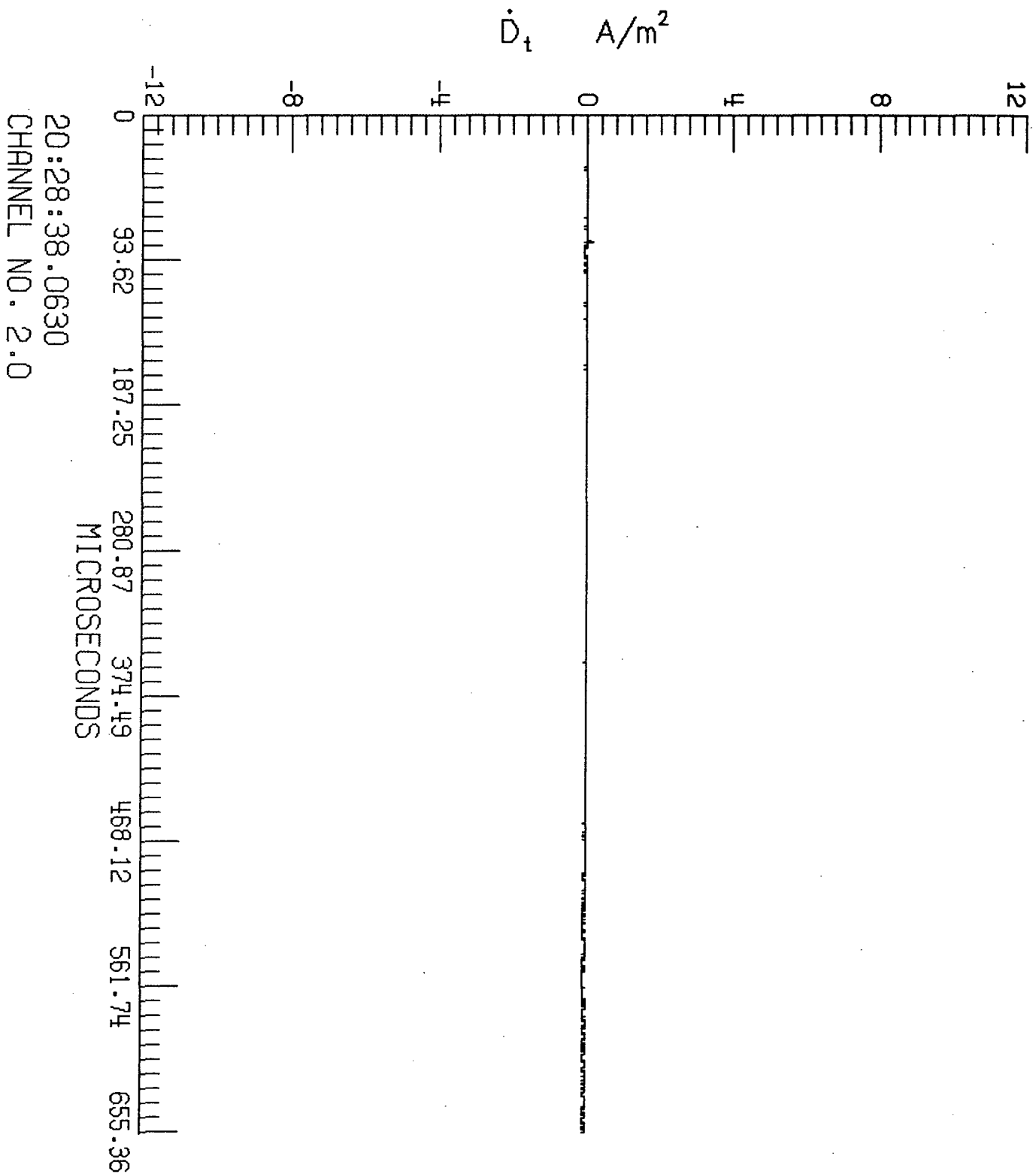


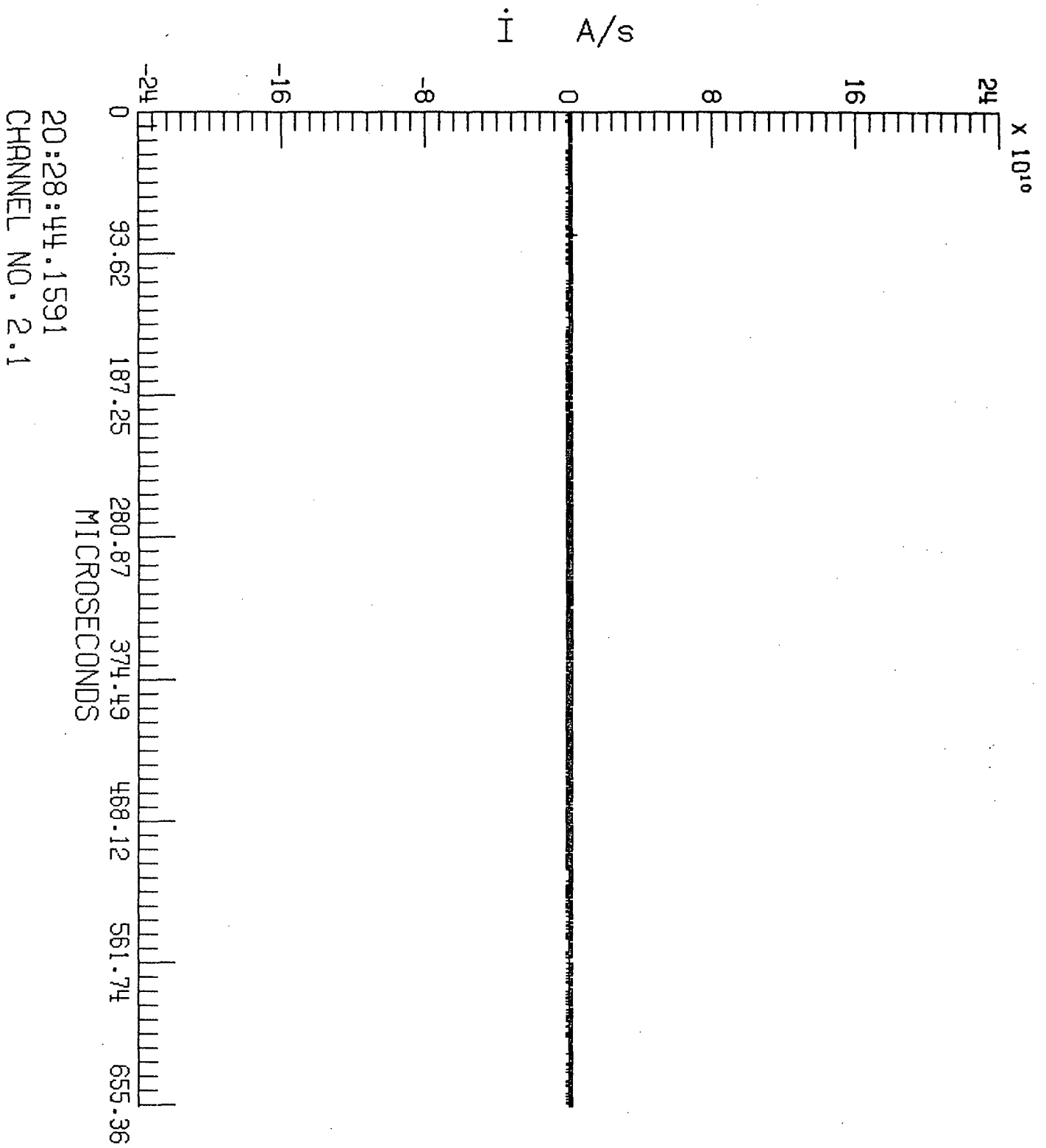
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CHANNEL NO. 2.1

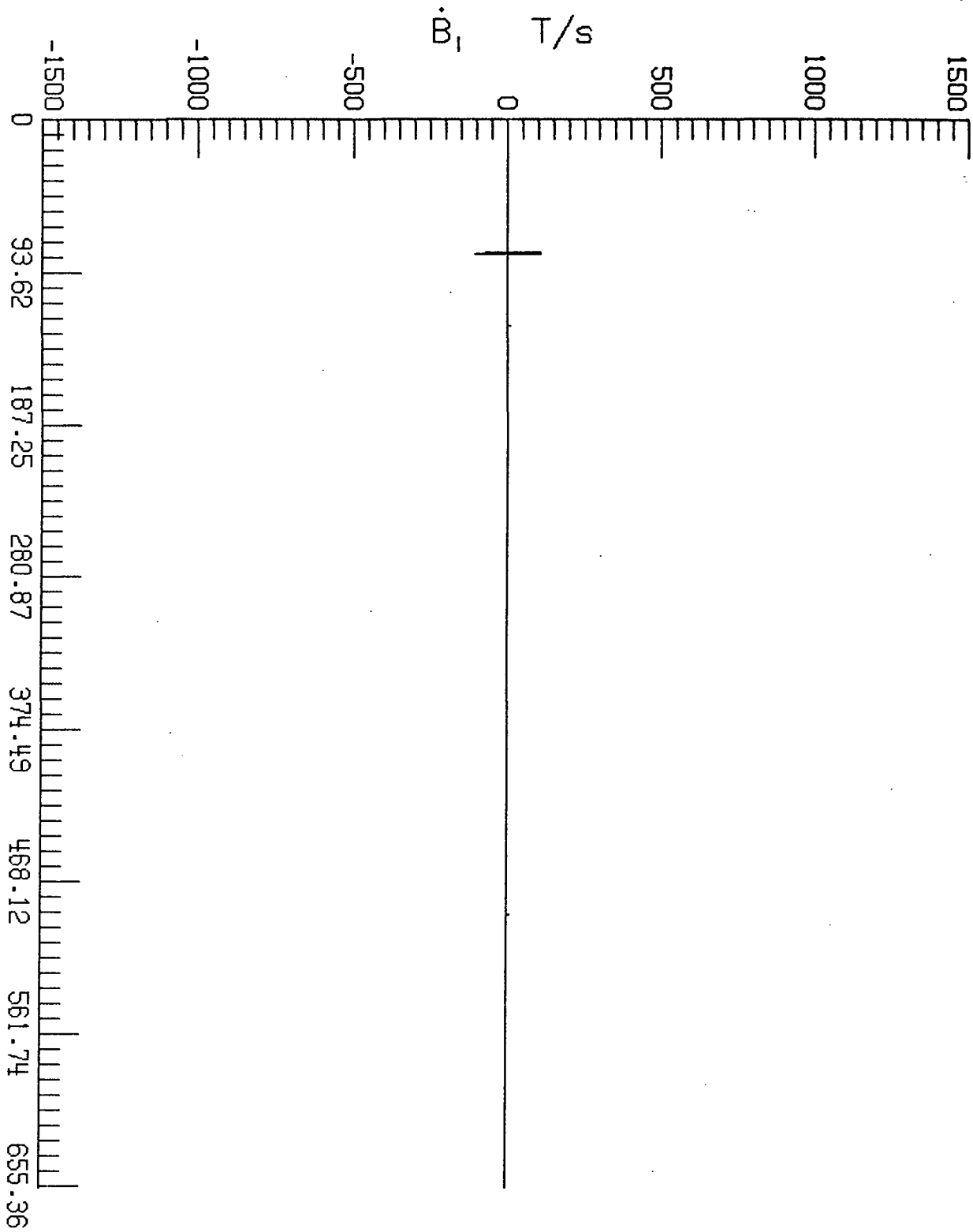






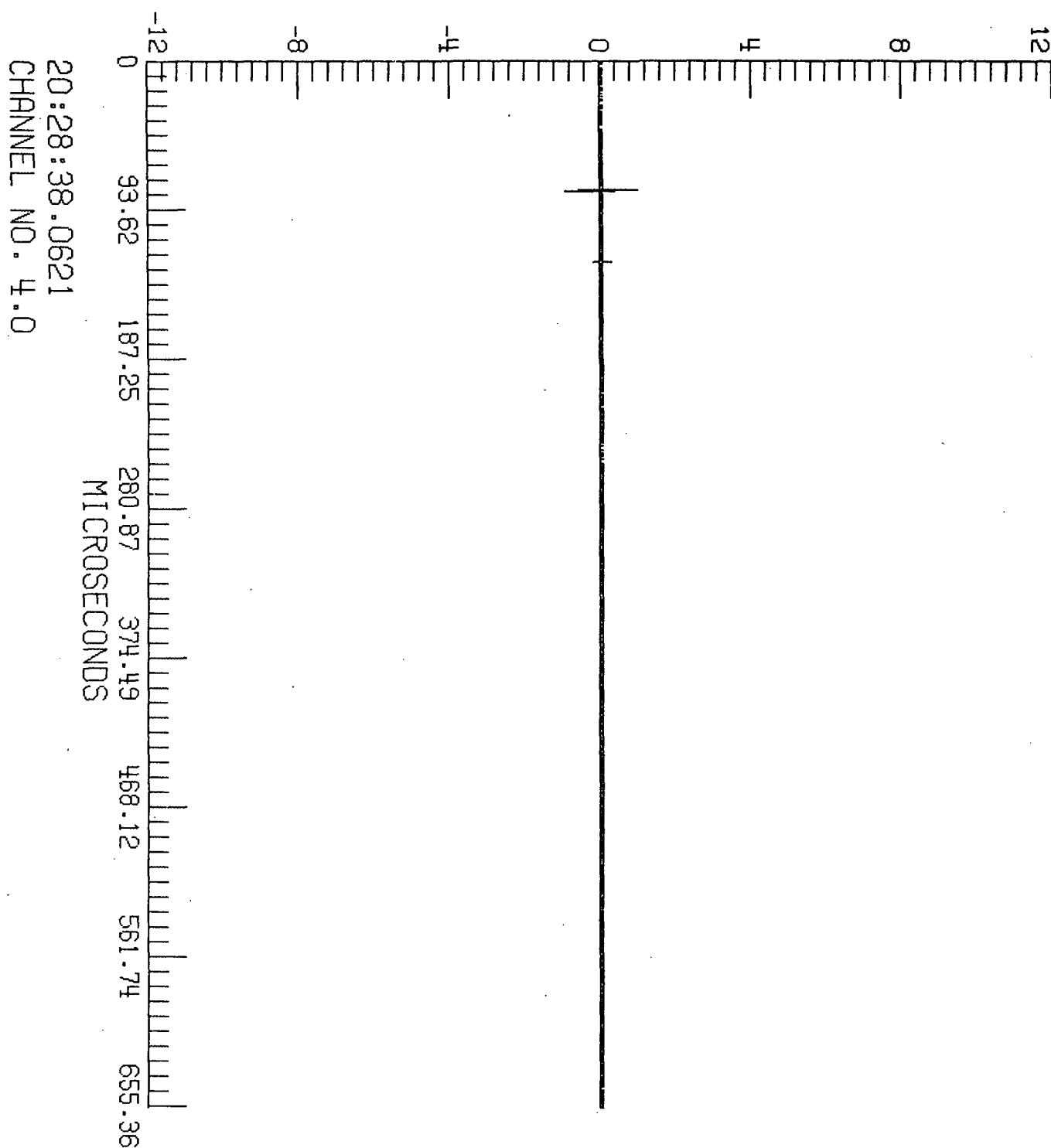






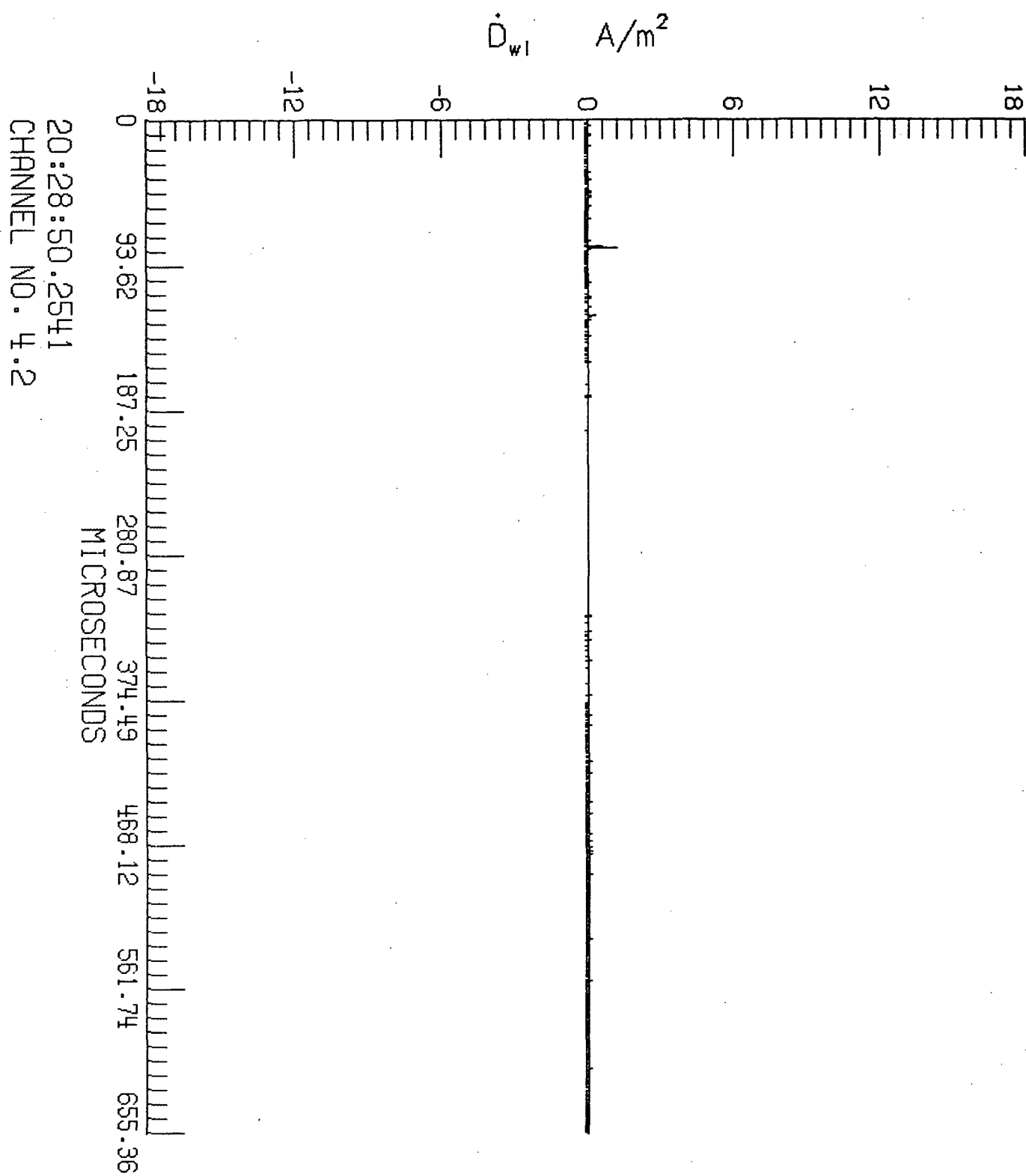
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CHANNEL NO. 2.2

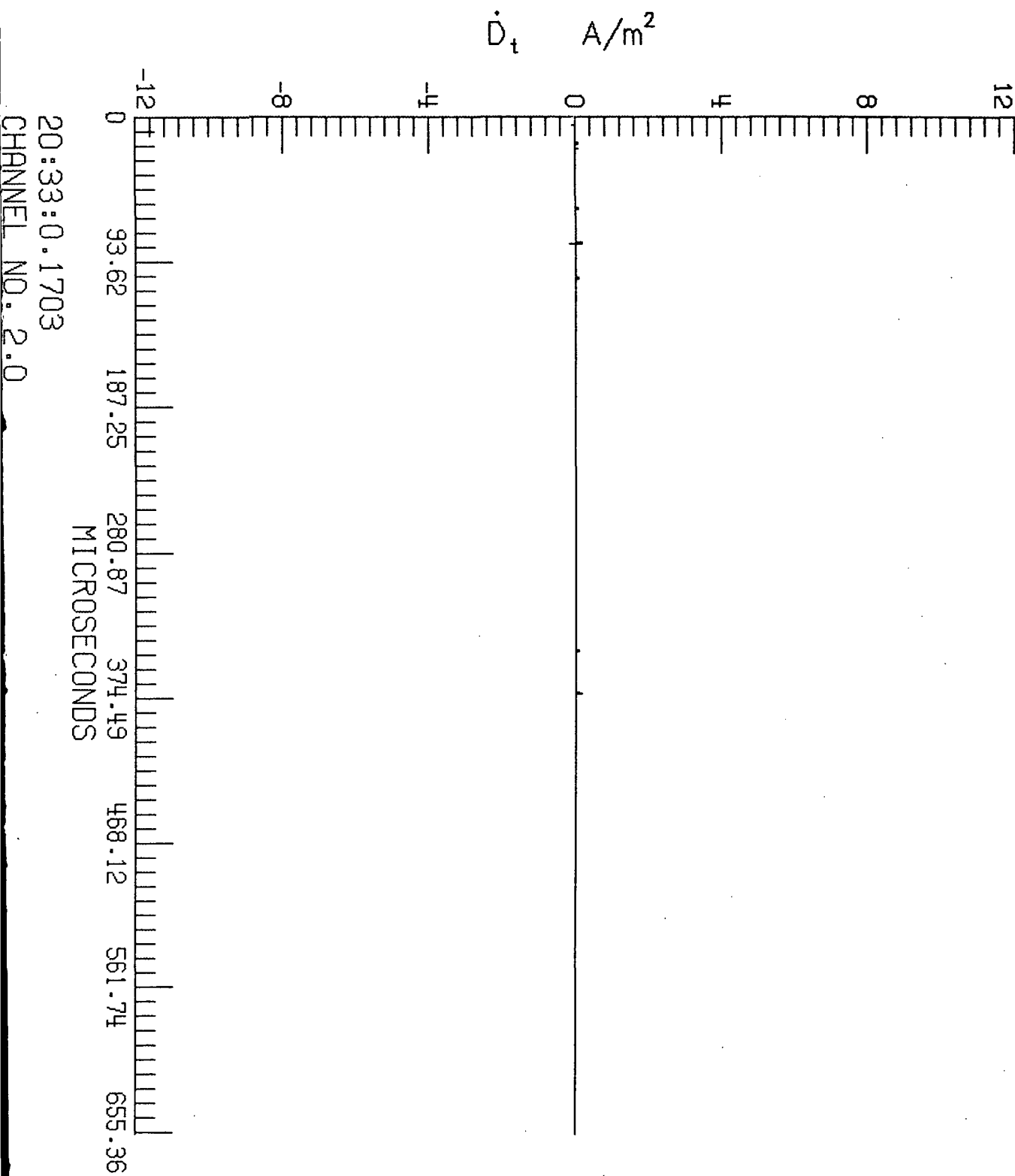
\dot{D}_f A/m²

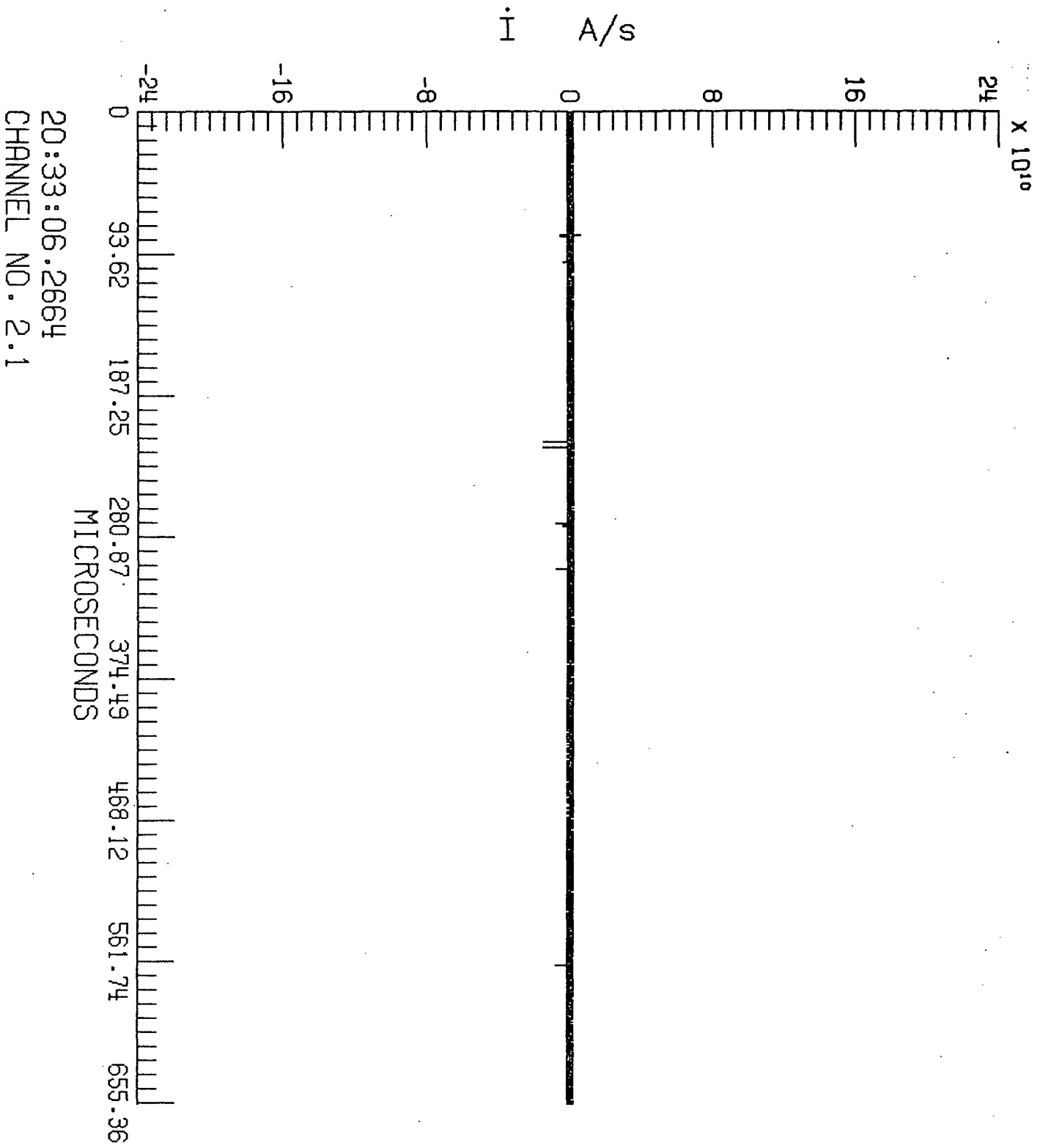


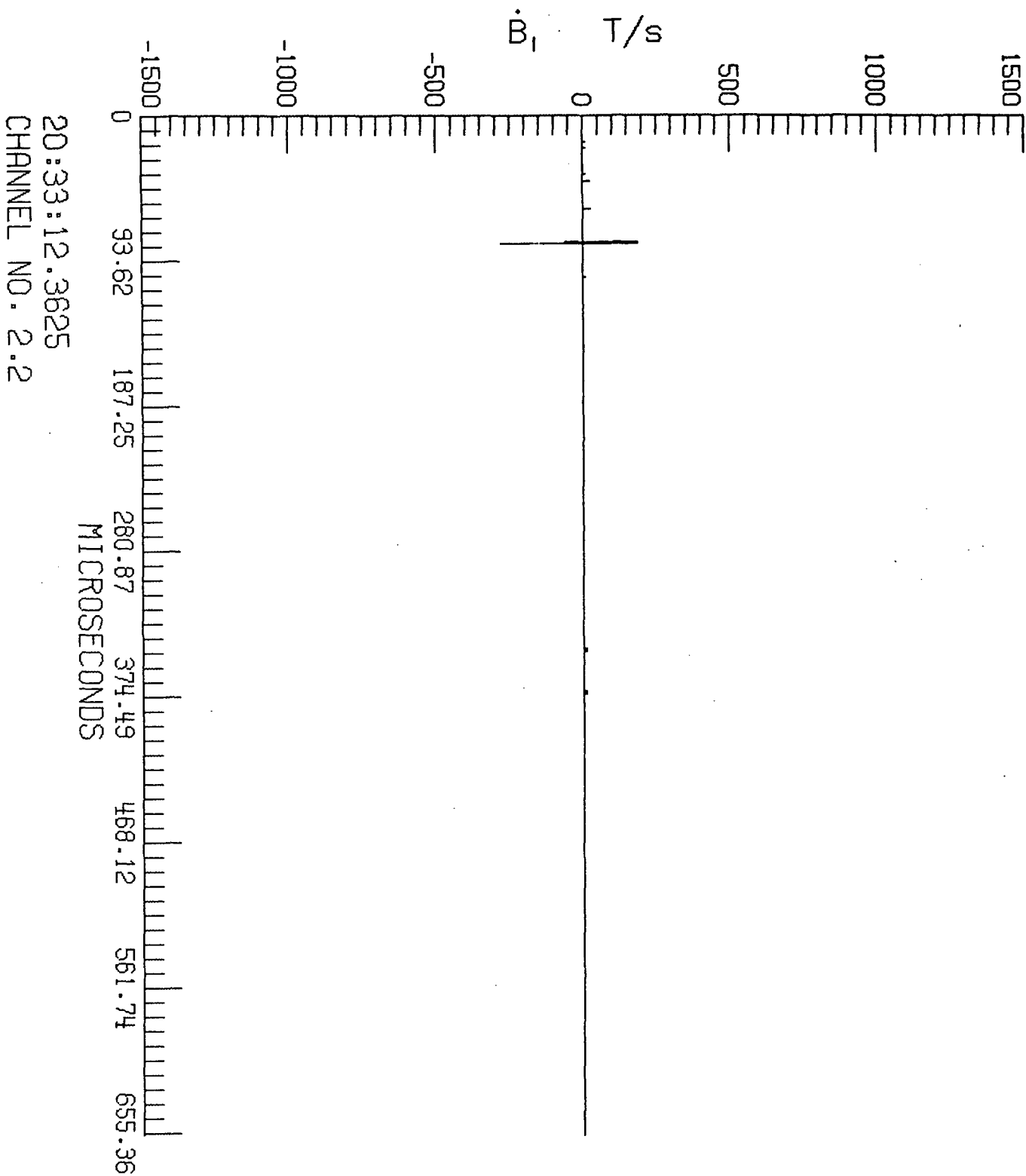
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CHANNEL NO. 4.0

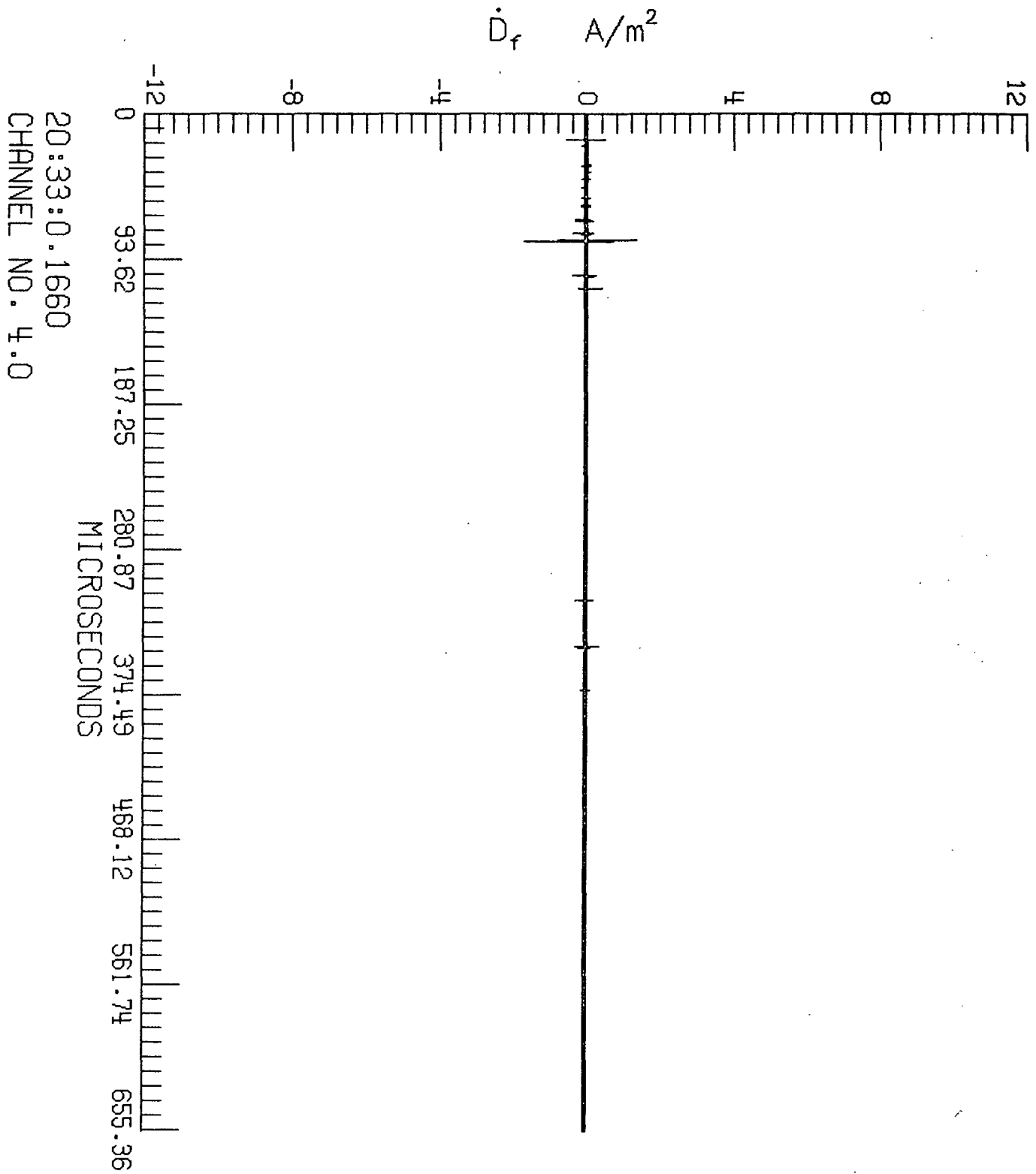
MICROSECONDS



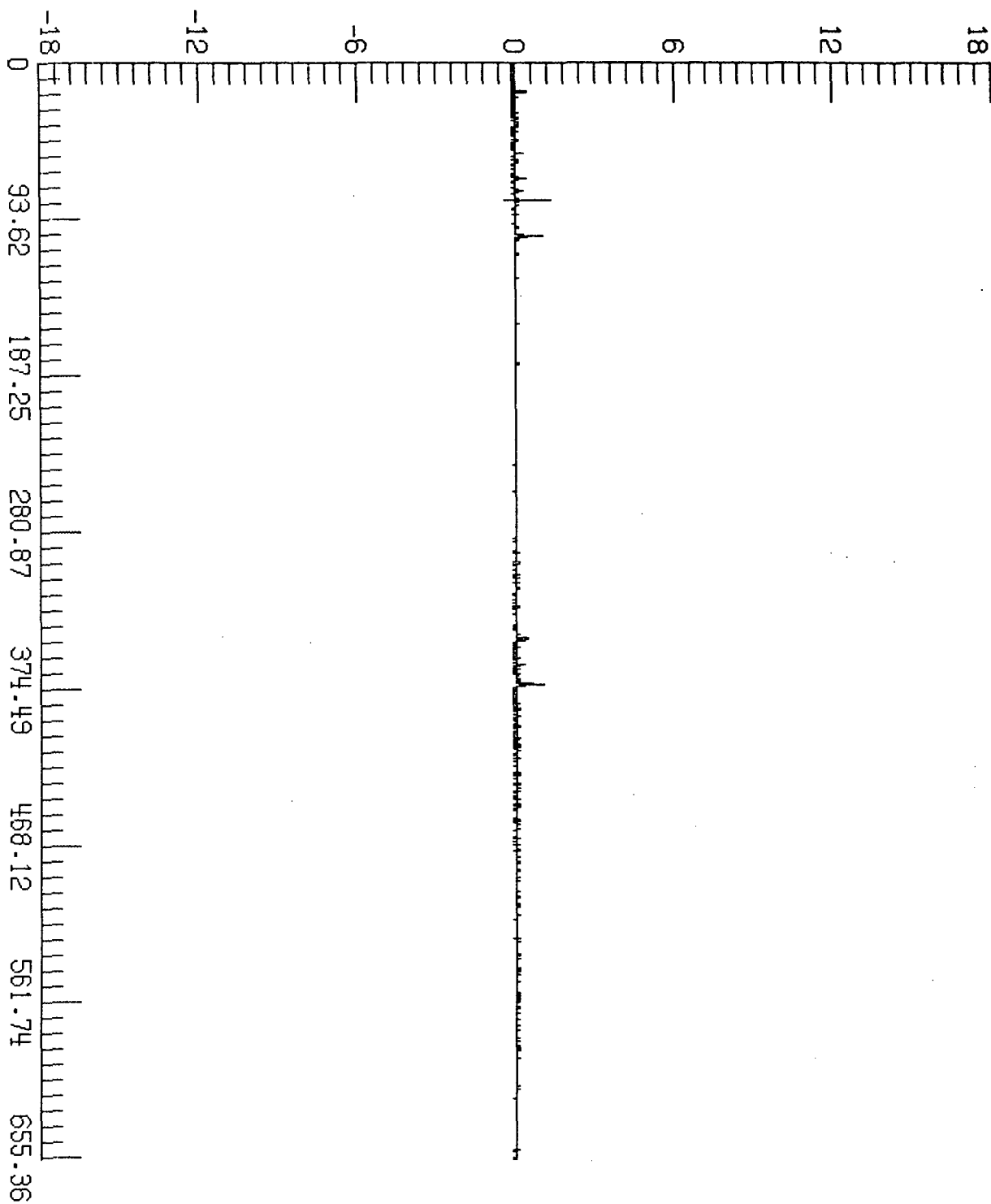




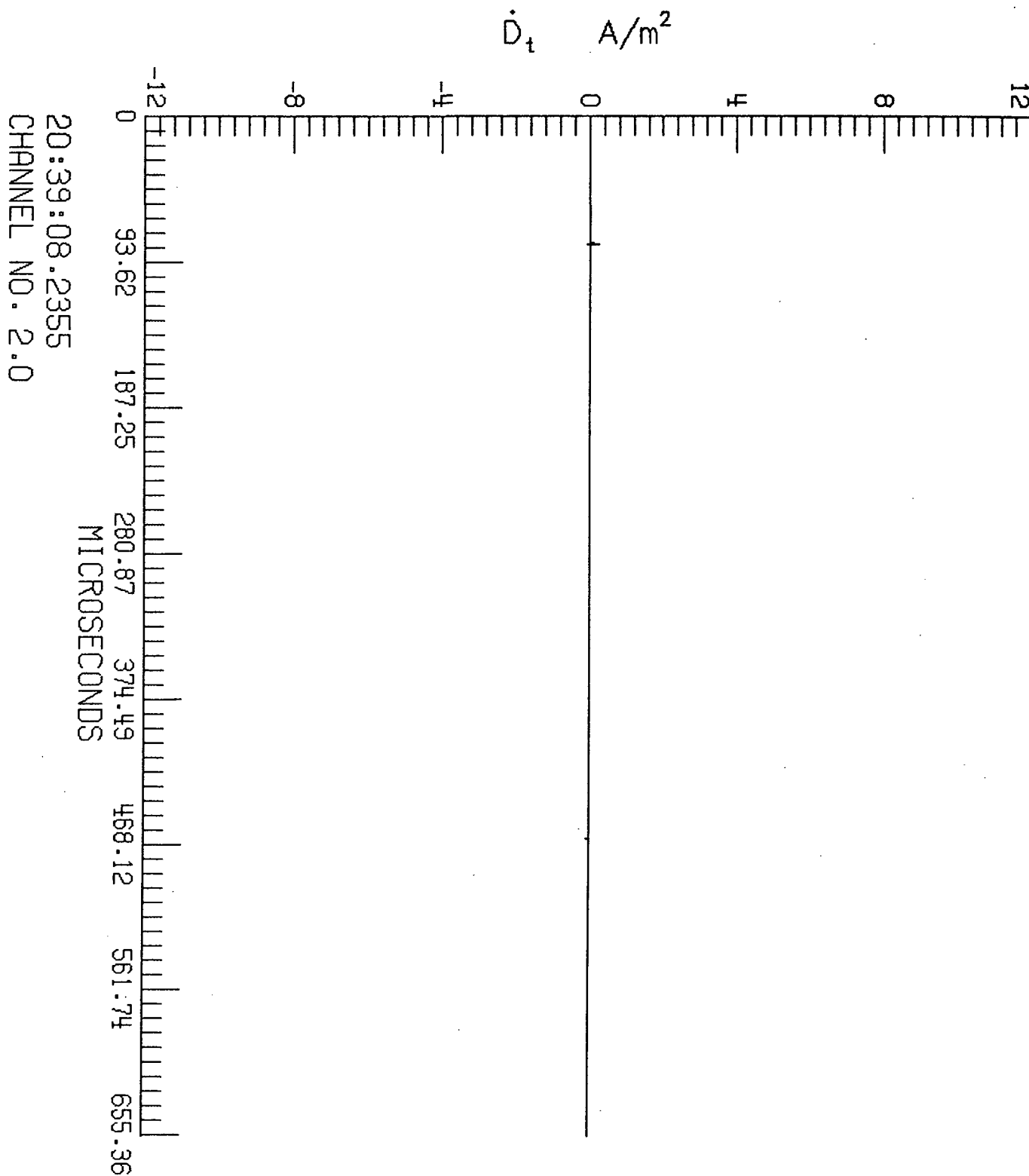


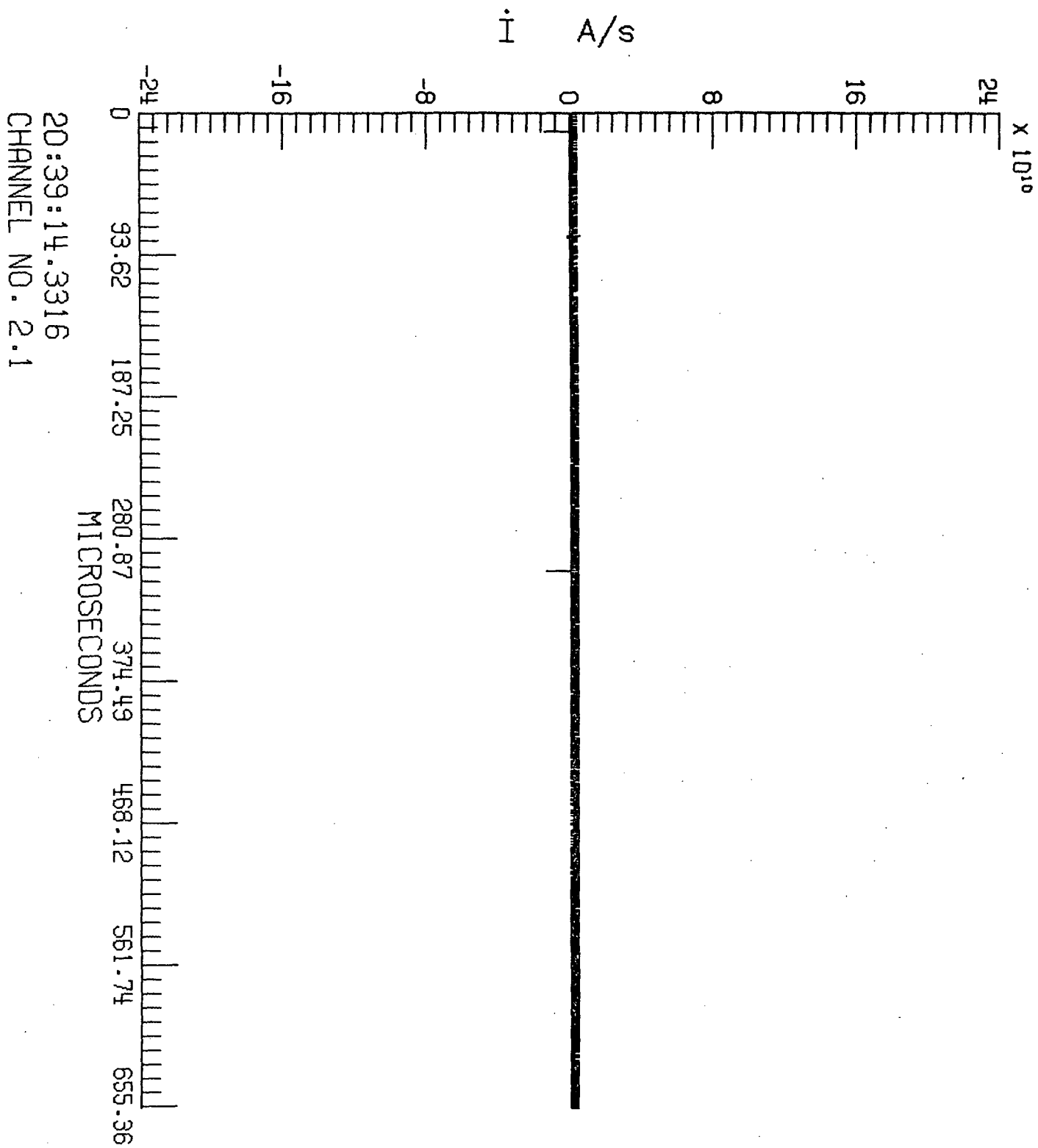


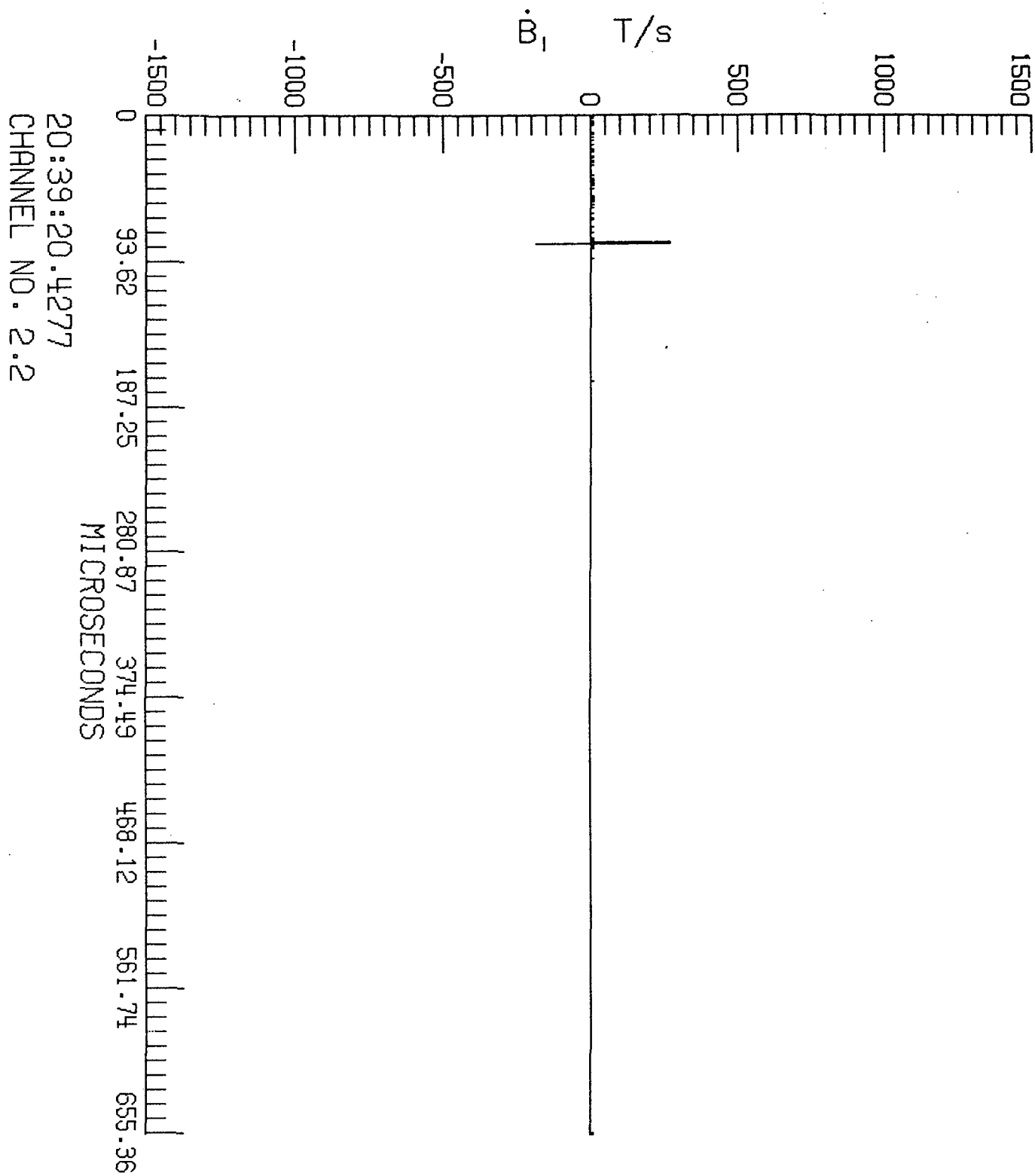
\dot{D}_{wl} A/m^2



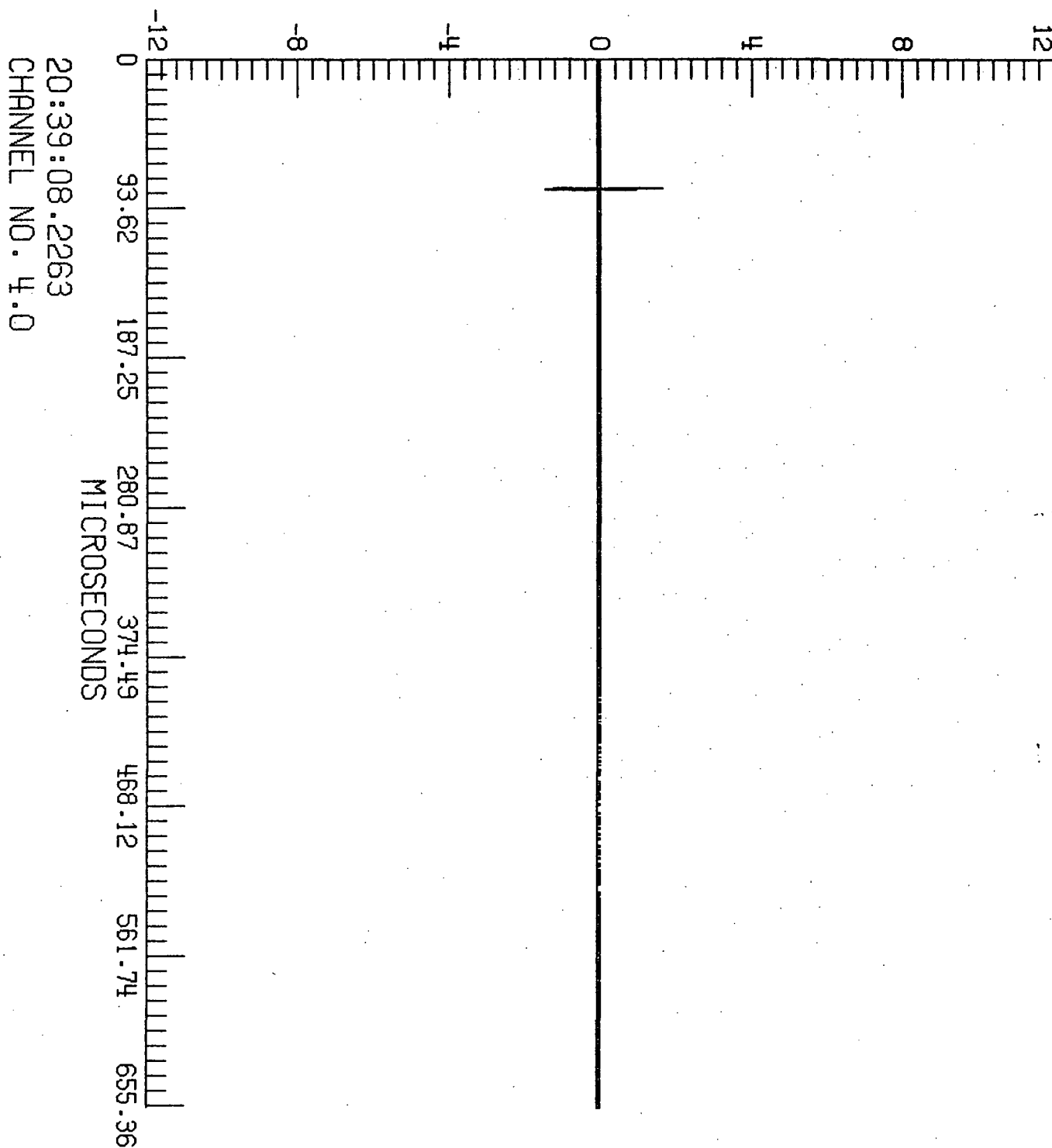
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CHANNEL NO. 4.2

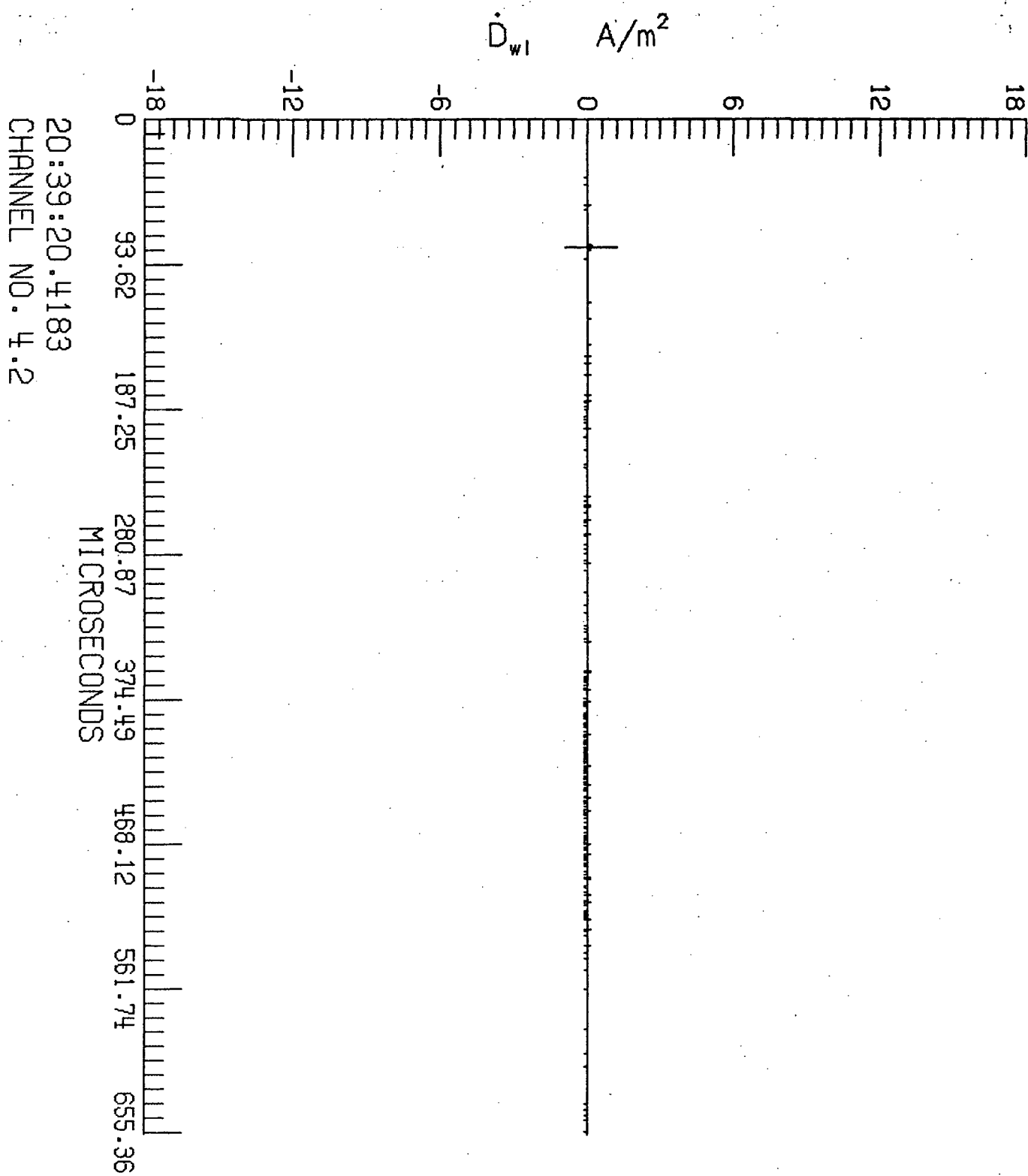


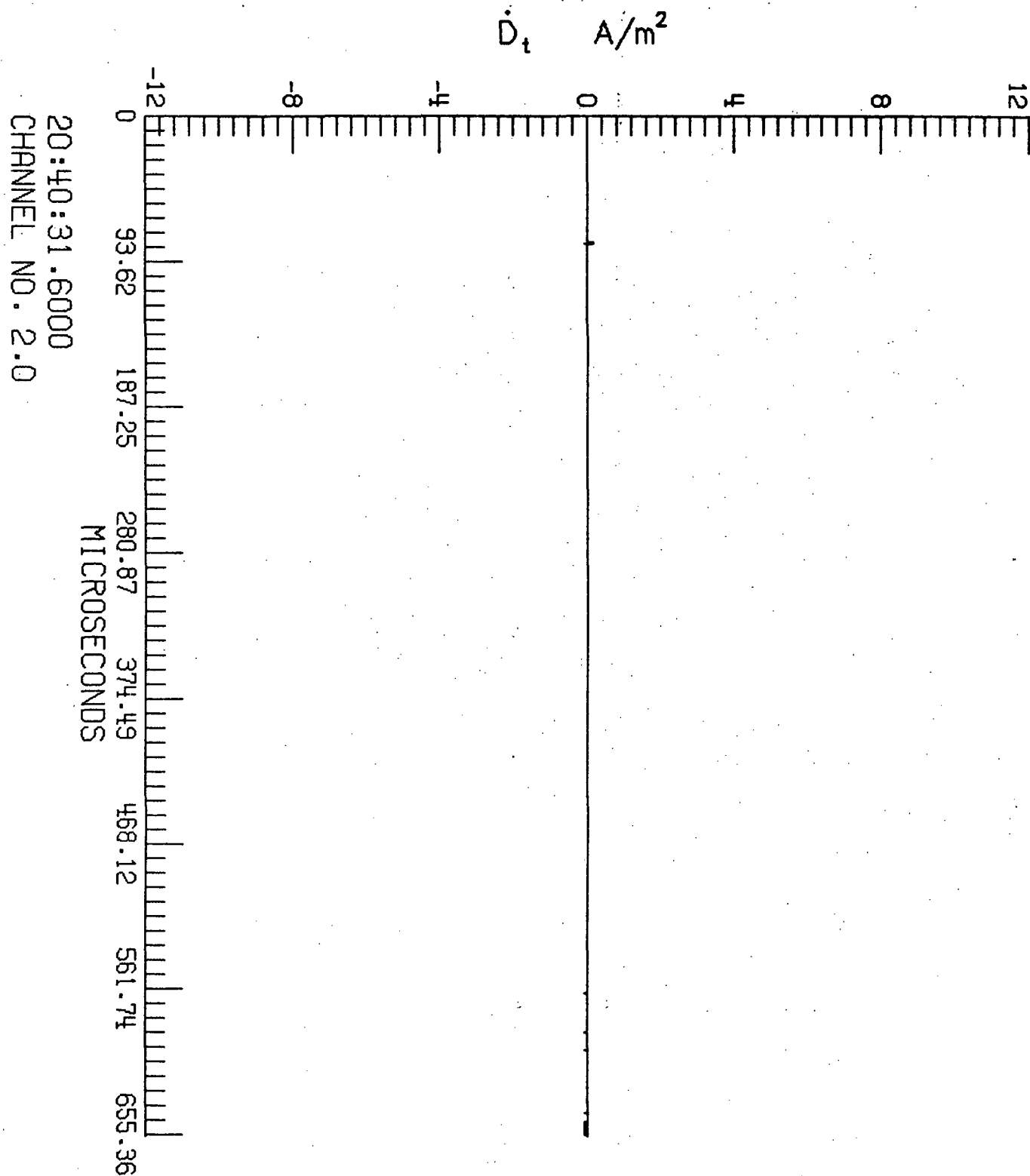




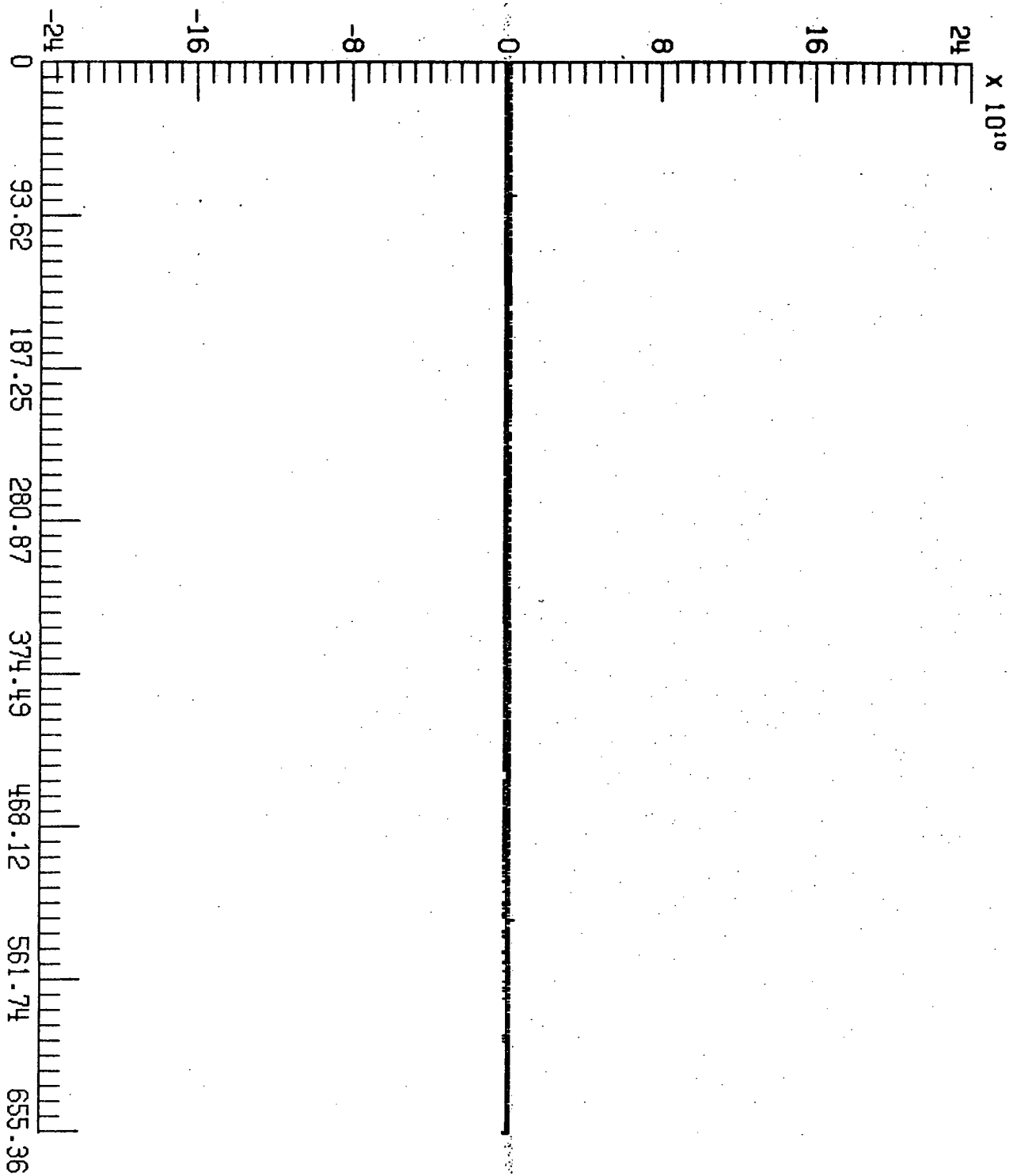
\dot{D}_f A/m²







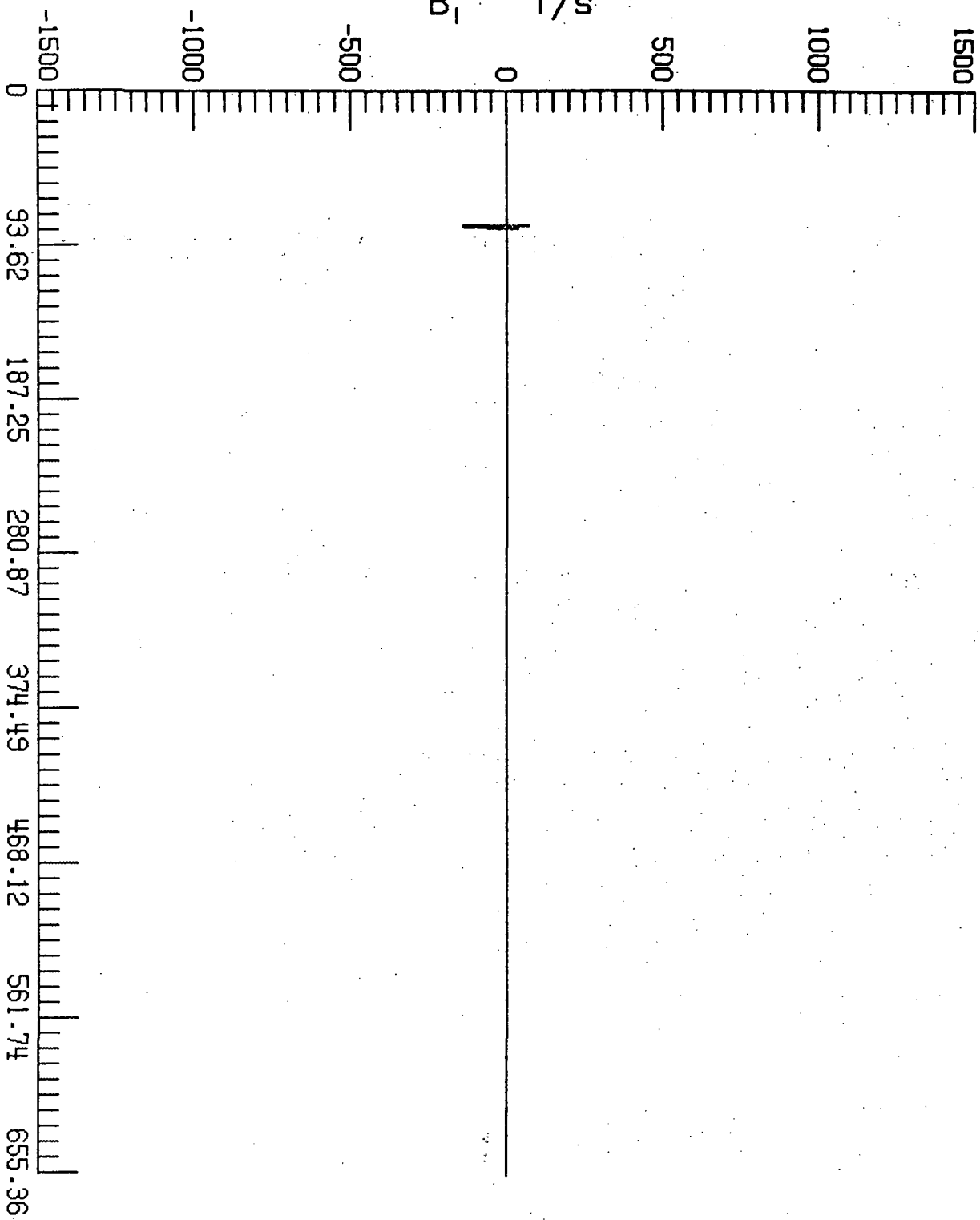
I A/s



20:40:37.6960
CHANNEL NO. 2.1

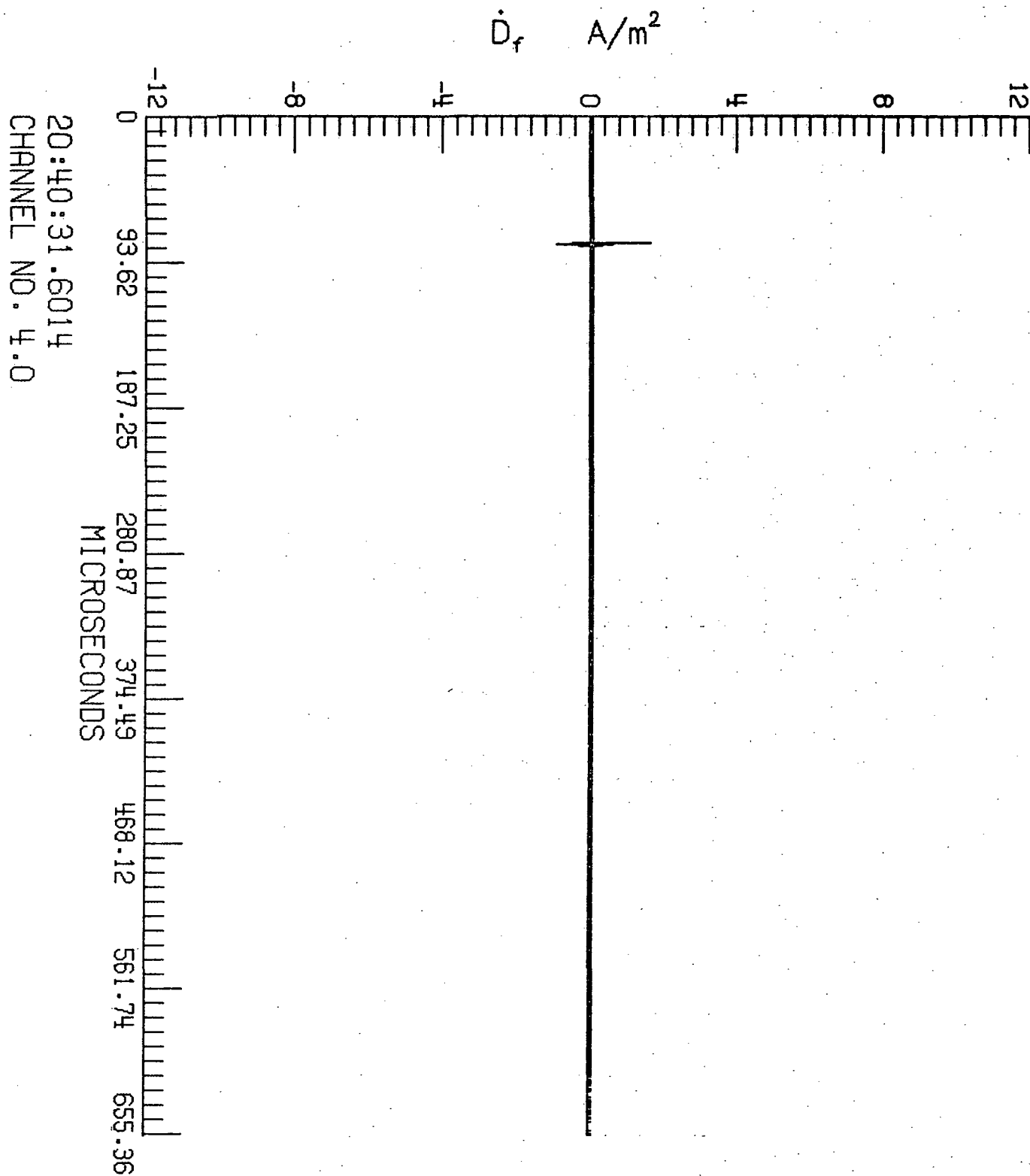
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CHANNEL NO. 2.2

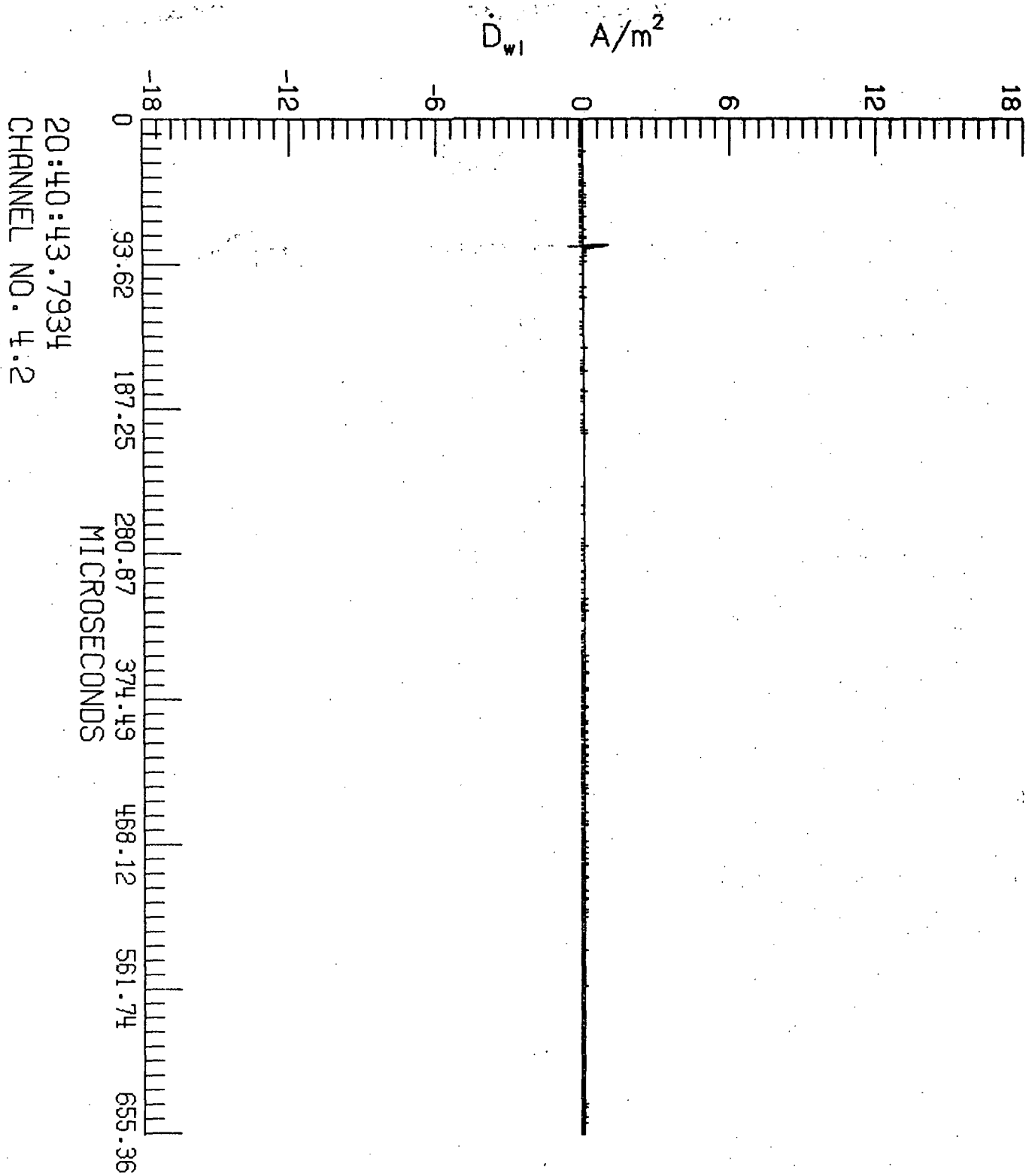
MICROSECONDS



F106 LIGHTNING/TK.5/M.THOMAS

TEST NO. 83

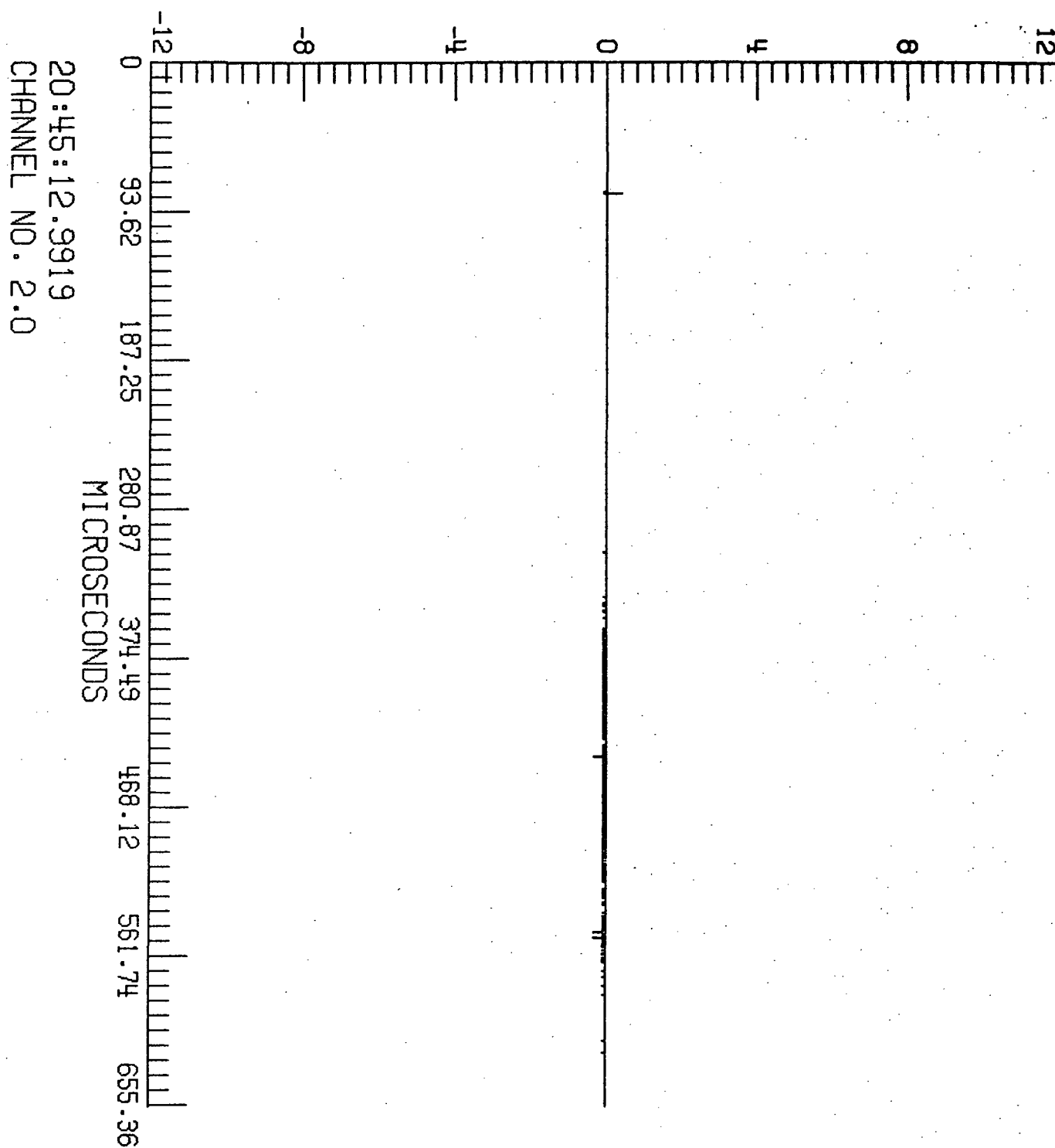




F106 LIGHTNING/TK.3/M.THOMAS

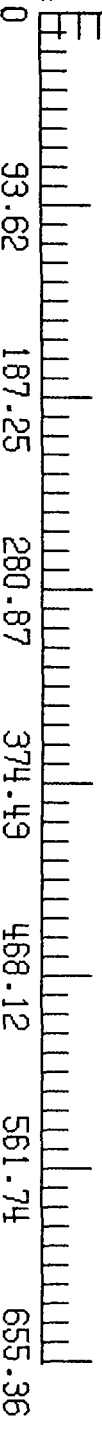
TEST NO. 83

\dot{D}_t A/m²



I A/s

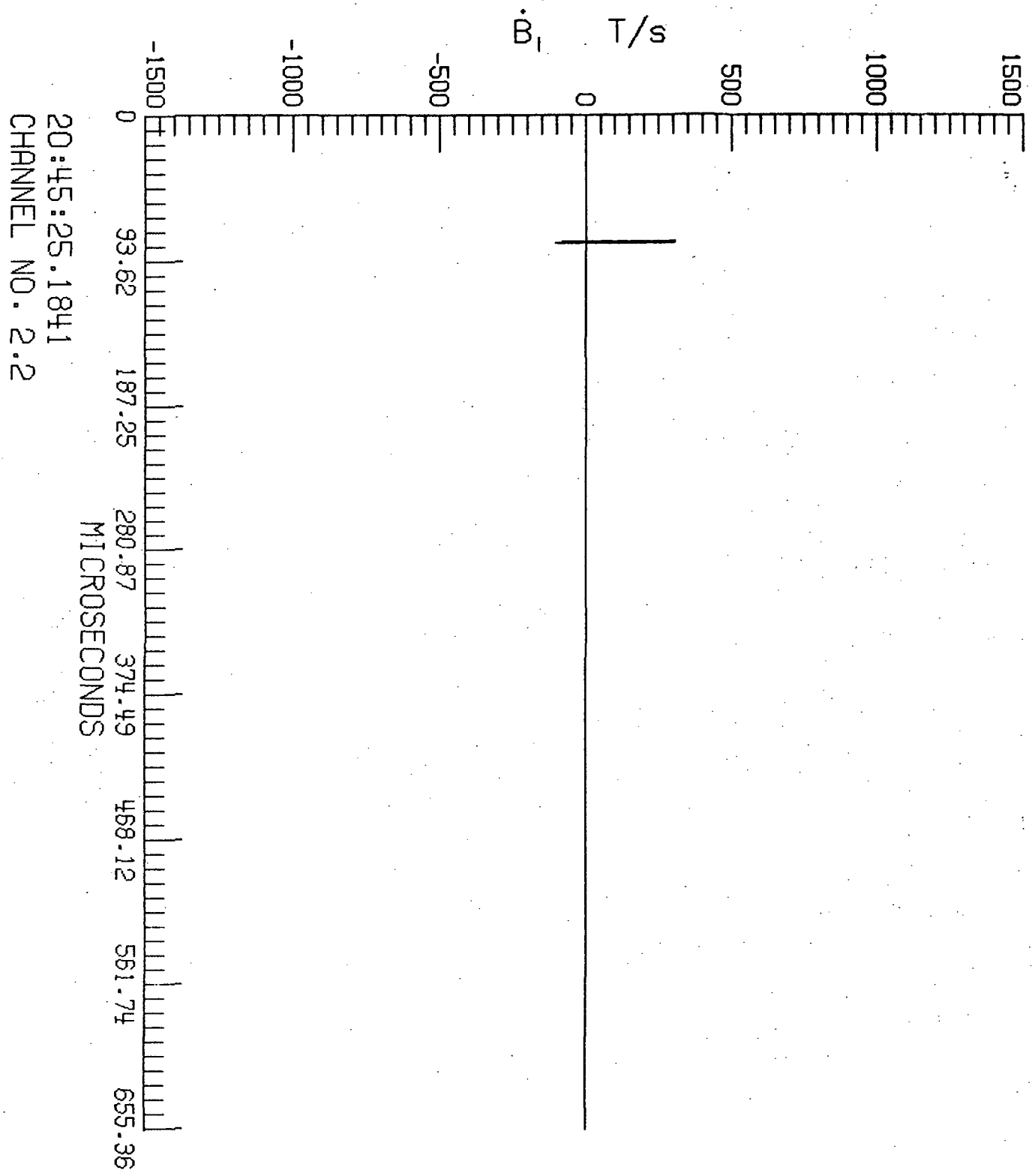
$\times 10^{10}$

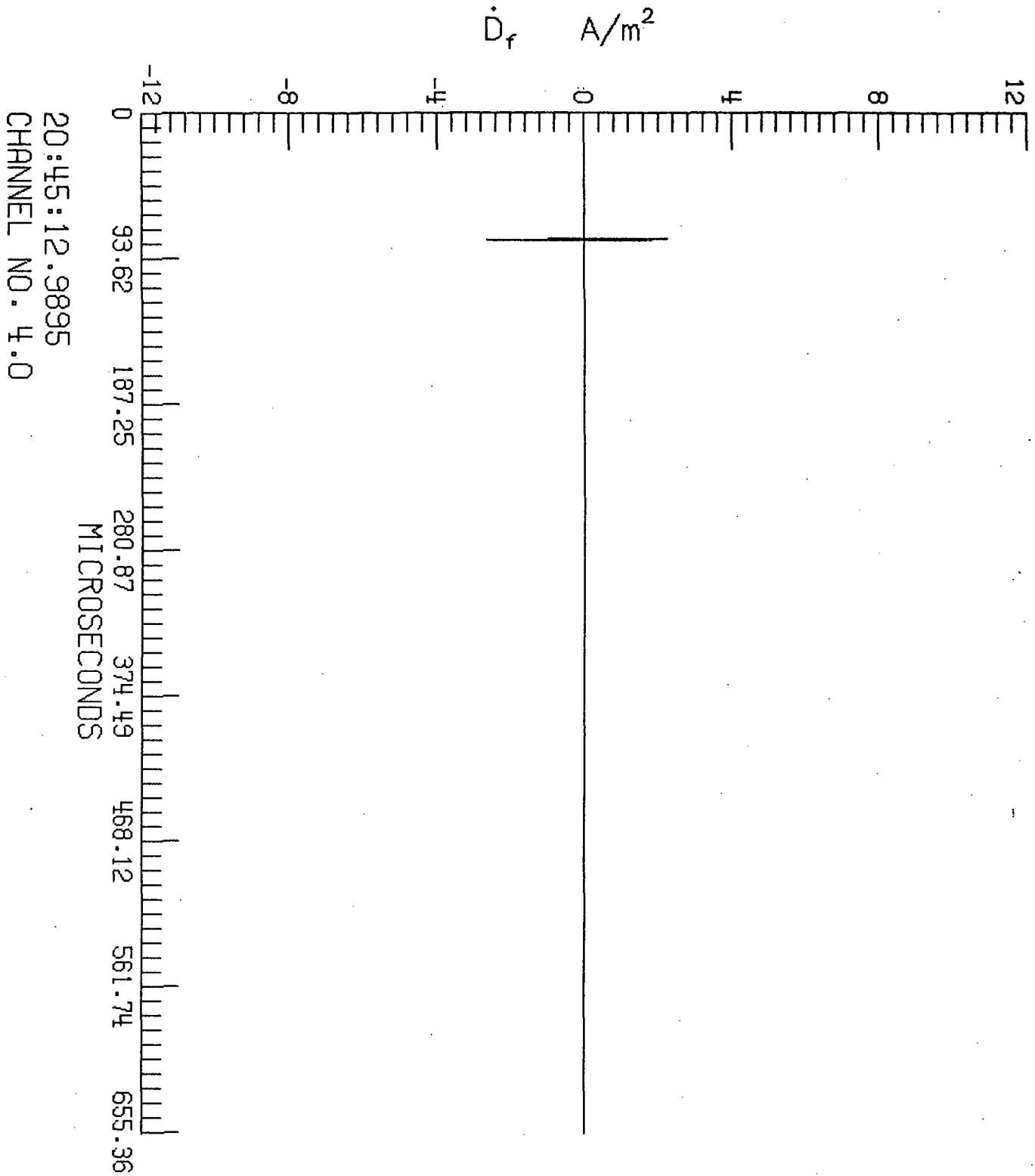


MICROSECONDS

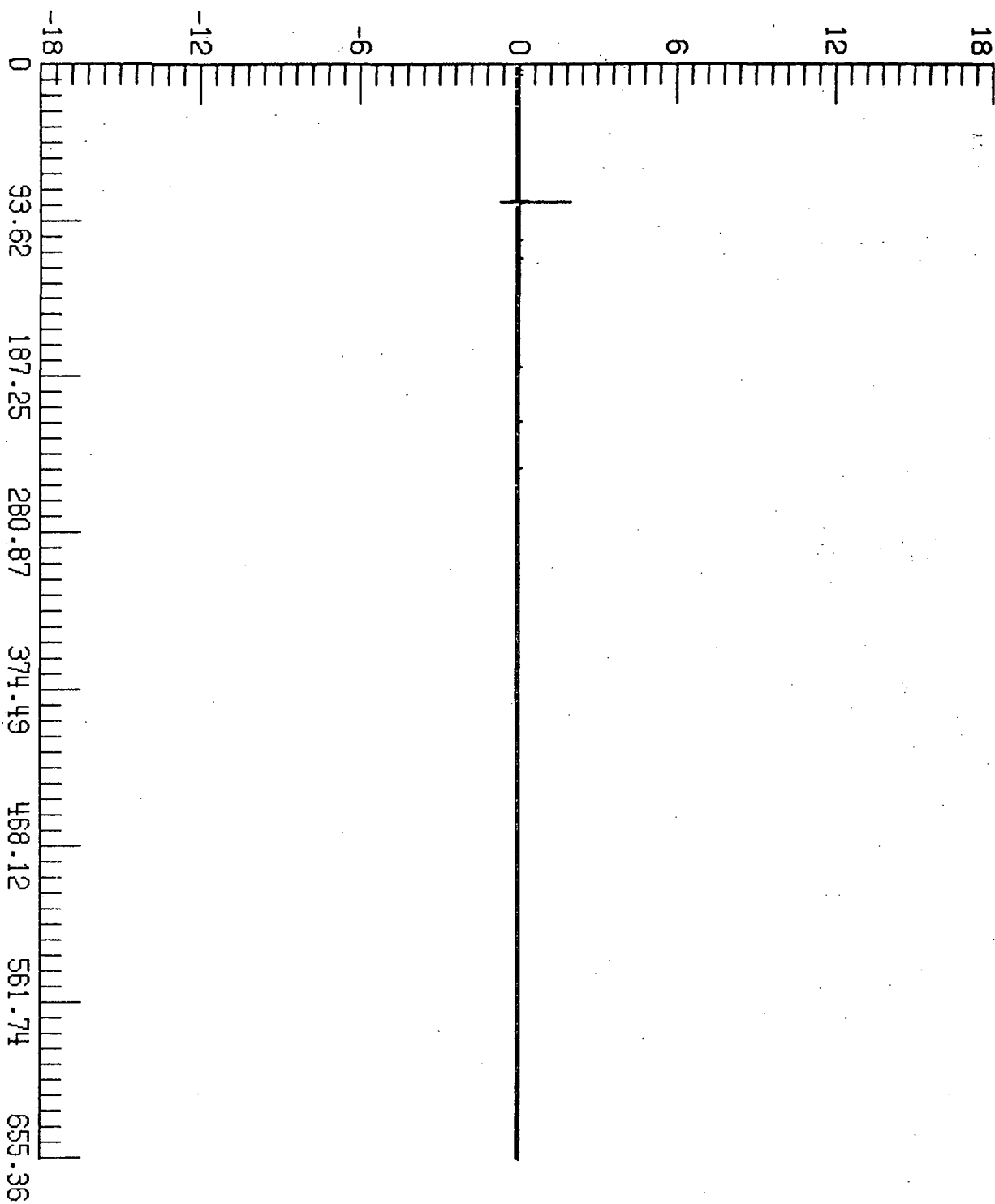
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CHANNEL NO. 2.1



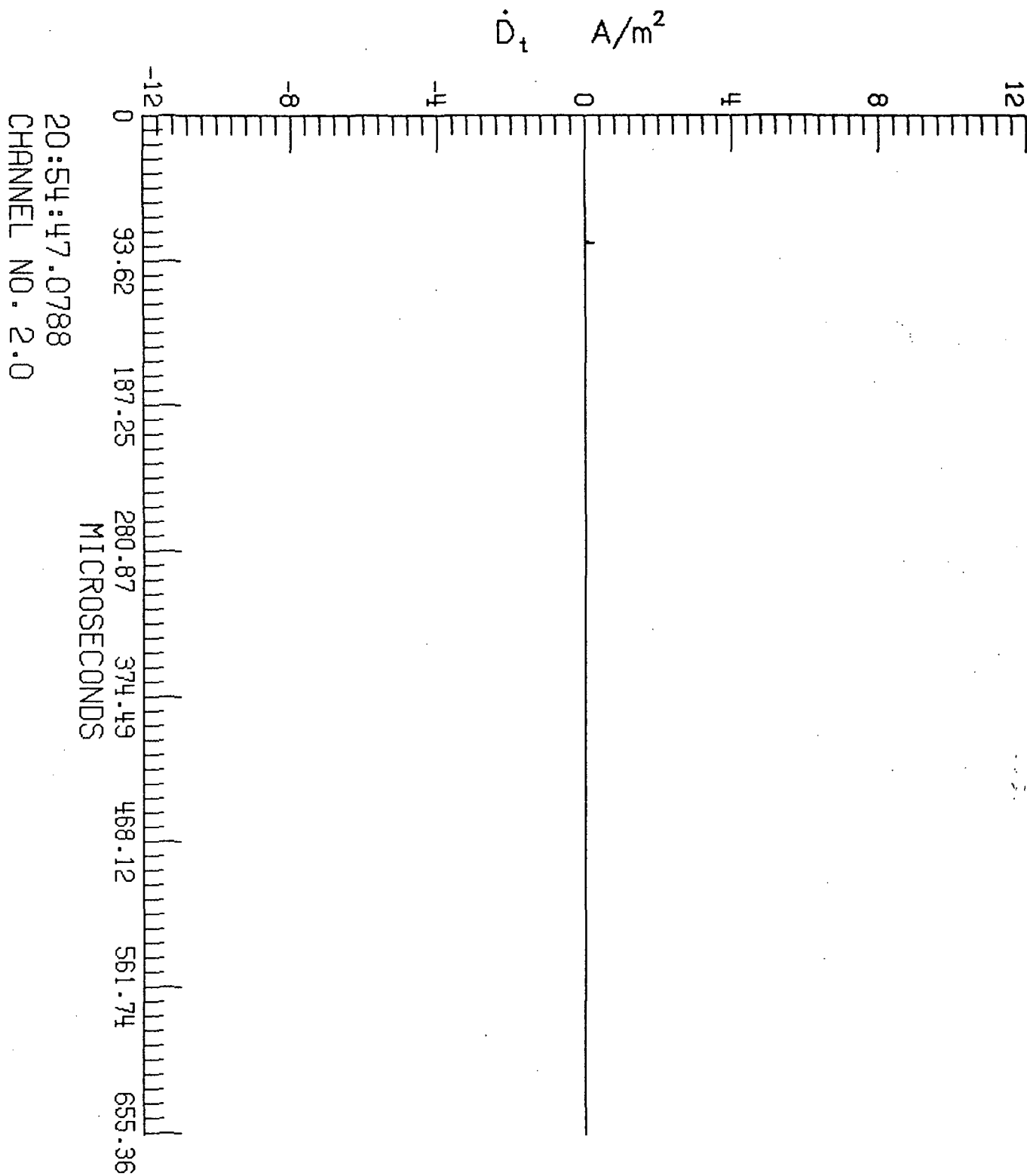


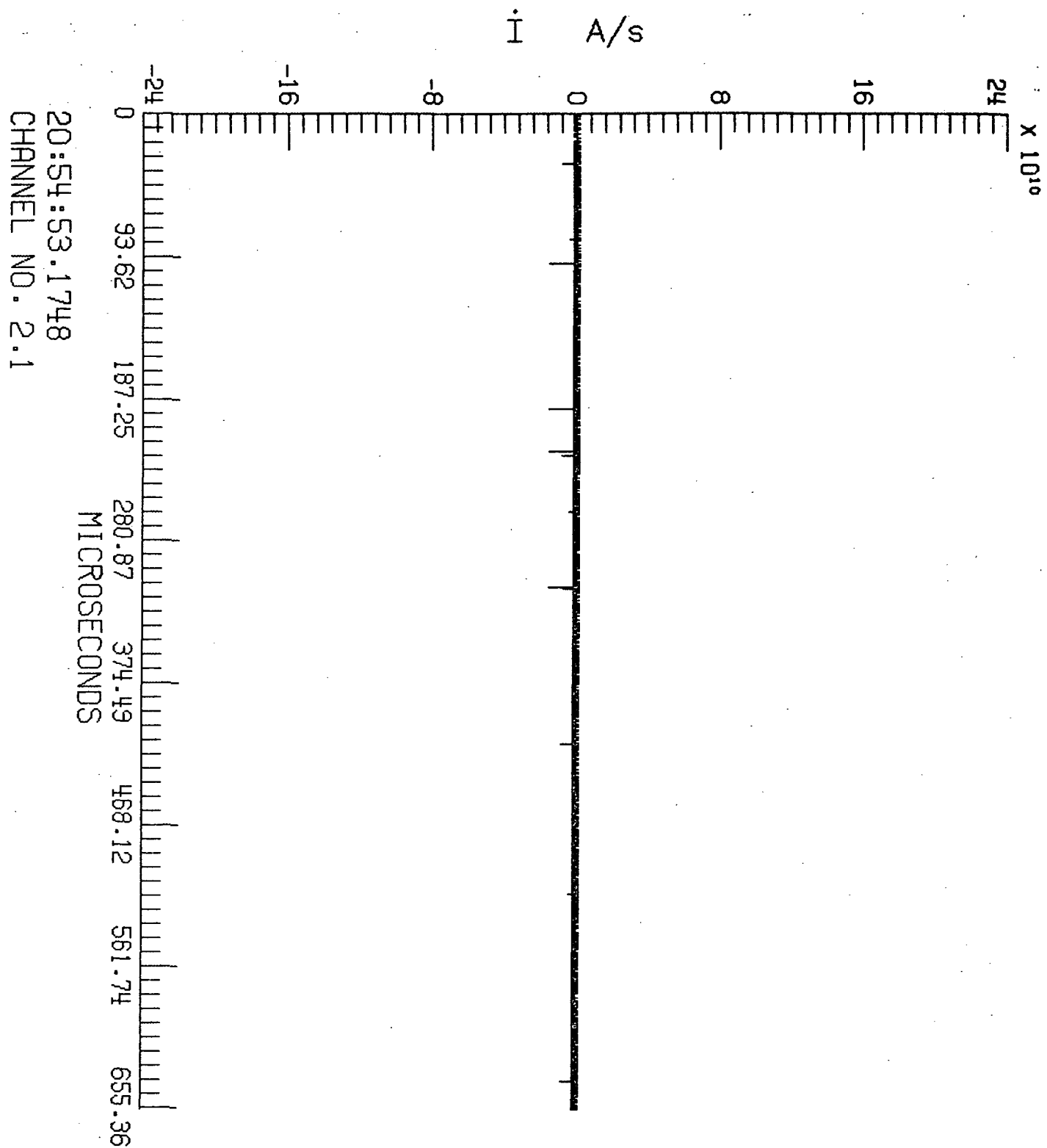
\dot{D}_{wl} A/m^2

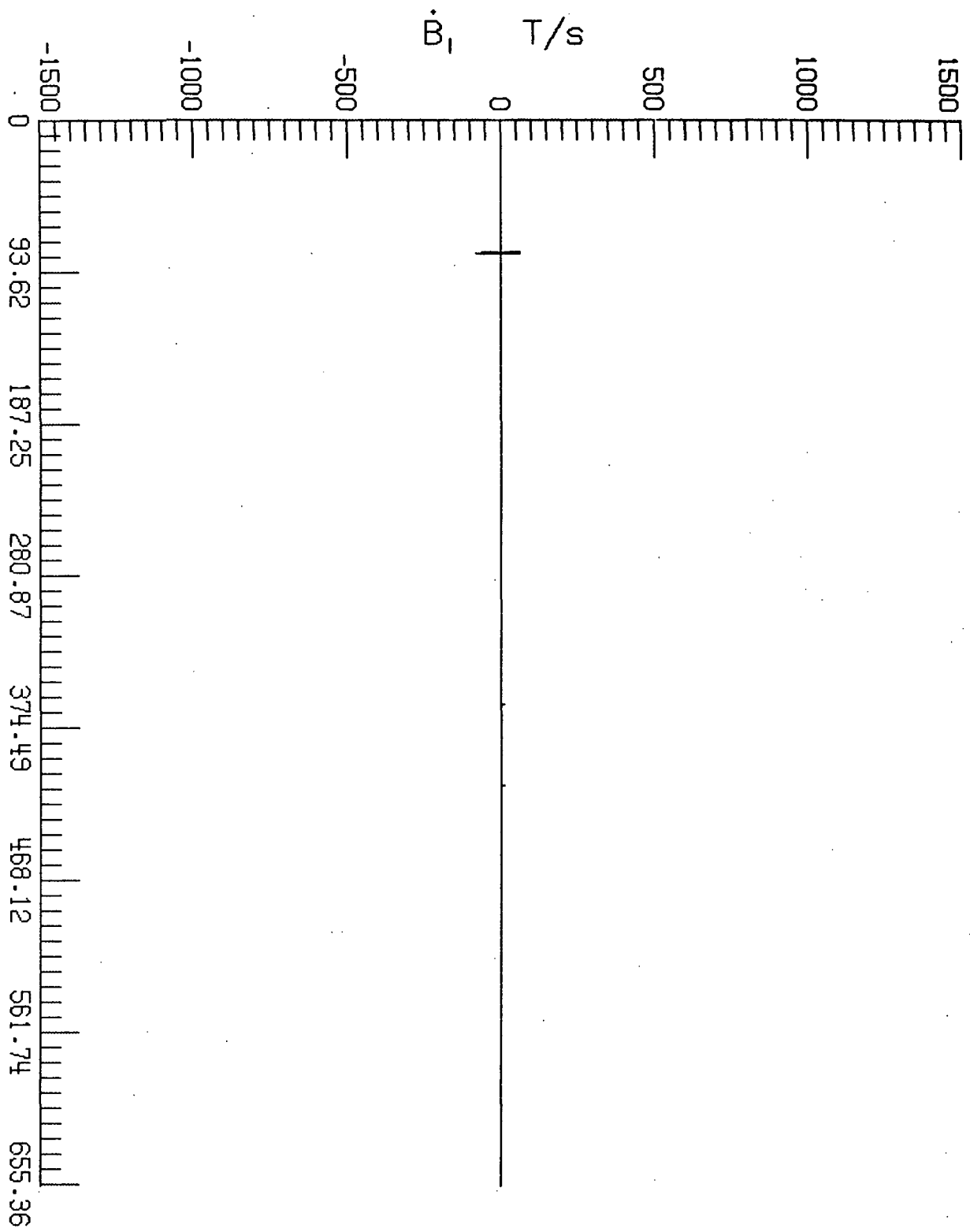


20:45:25.1815
CHANNEL NO. 4.2

MICROSECONDS

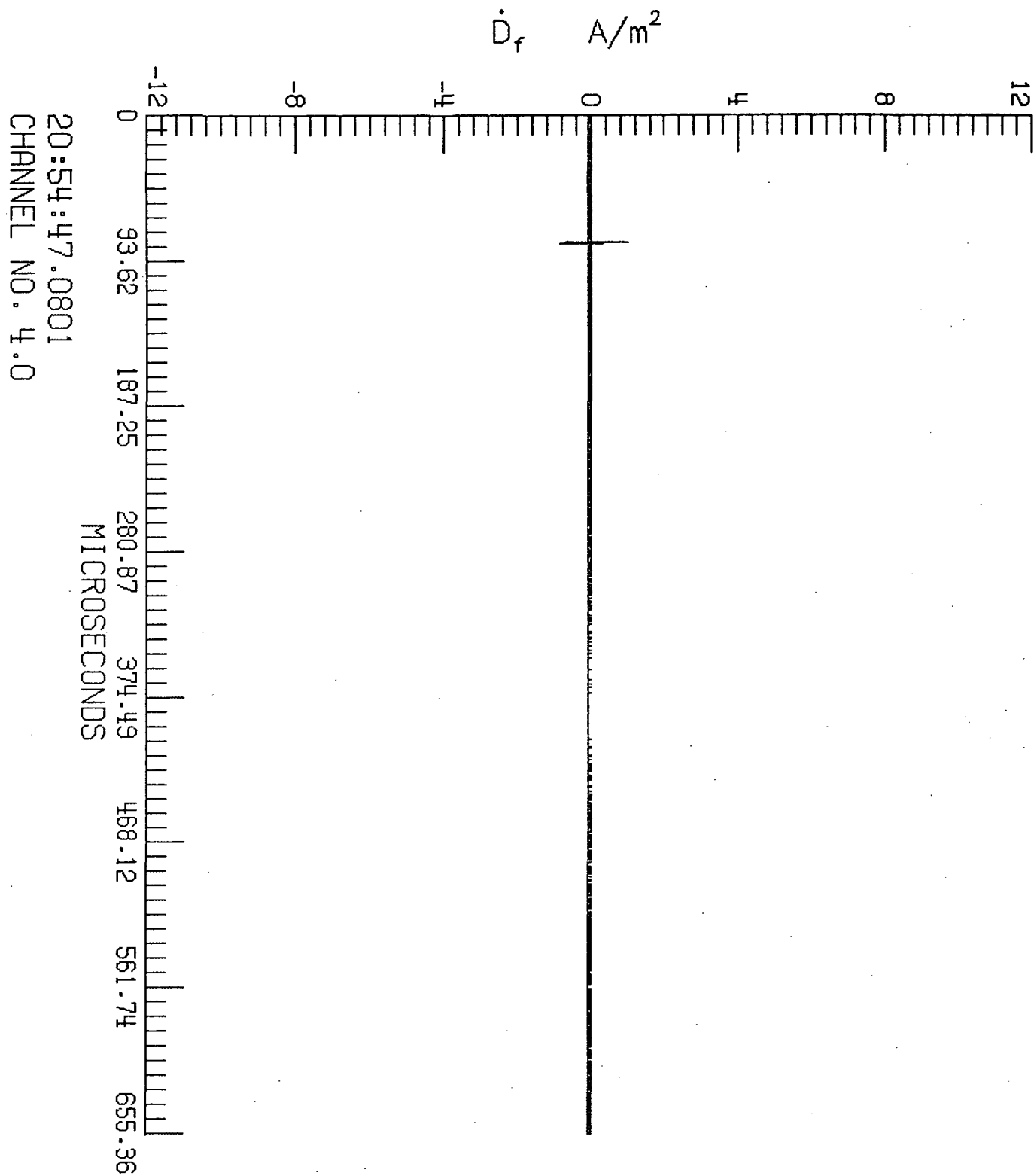


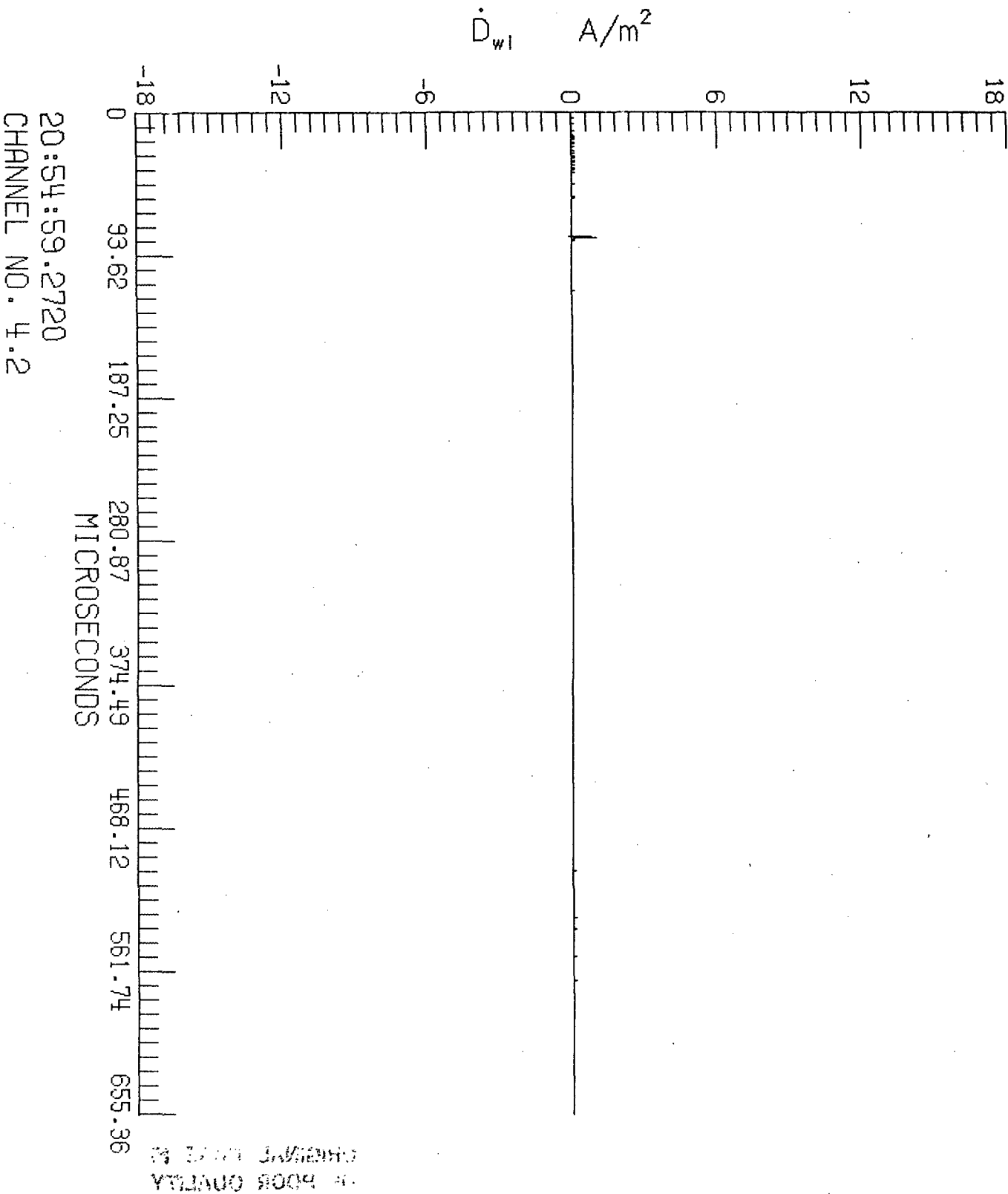




20:54:59.2709
CHANNEL NO. 2.2

MICROSECONDS





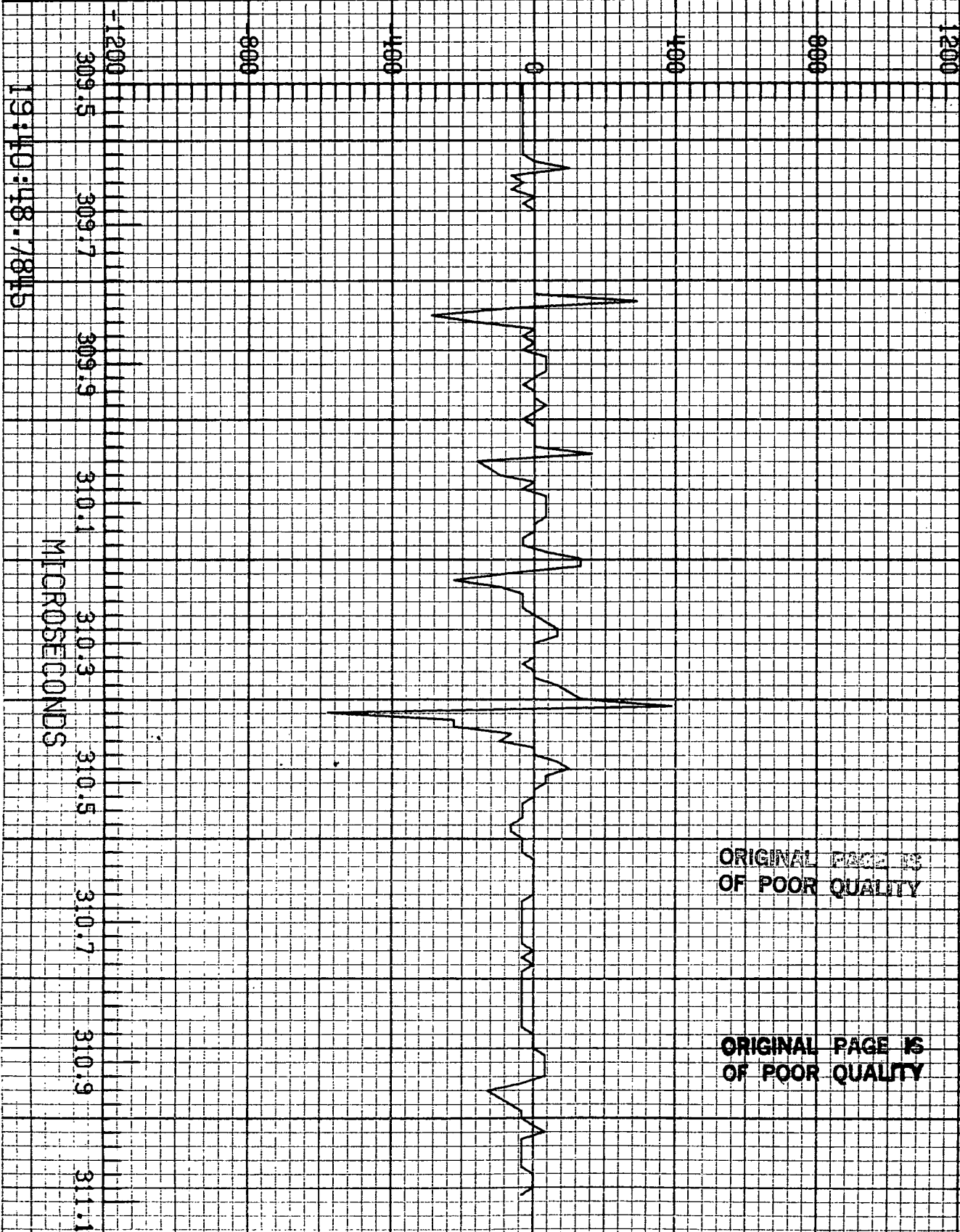
F106 LIGHTNING/TK-8/83-011/THOMAS

TEST NO. 83-01

RUN NO. 2

S-001

B DOT L T/S



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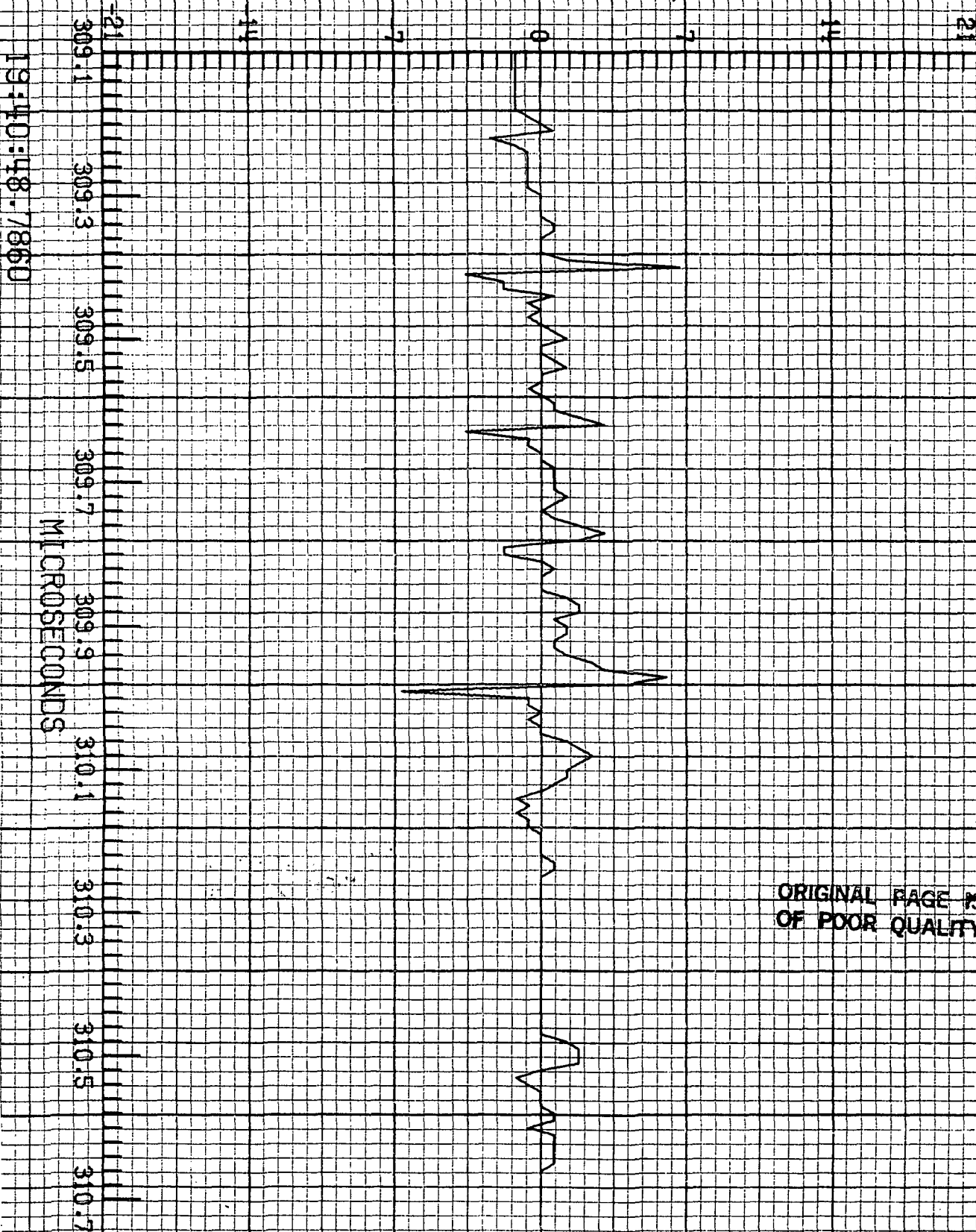
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TEST NO. 83-01

RUN NO. 2

S-001

D DOT FWD A/m^2



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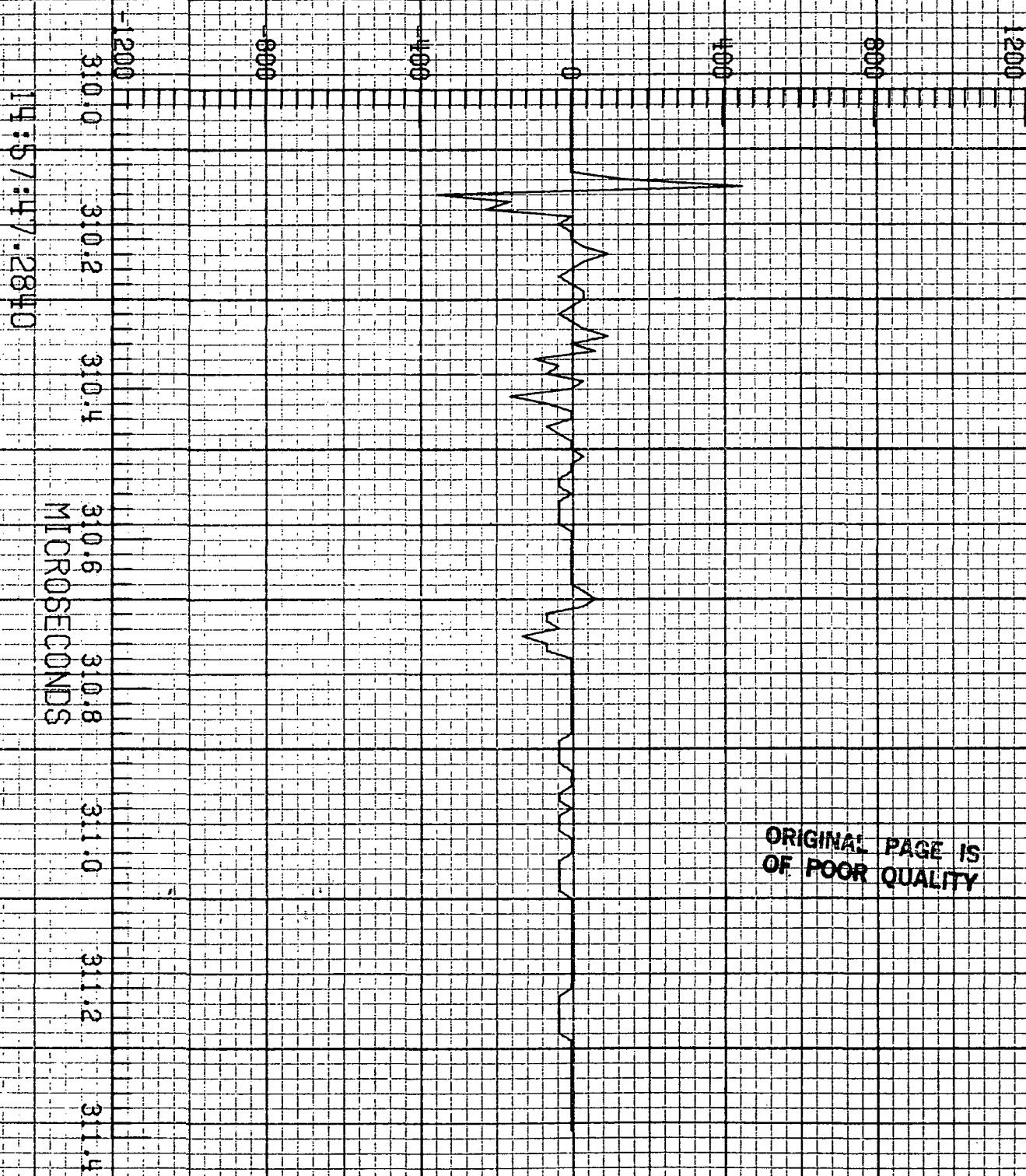
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TEST NO. 83-013

RUN NO. 1

S-001

B DOT 1 T/S



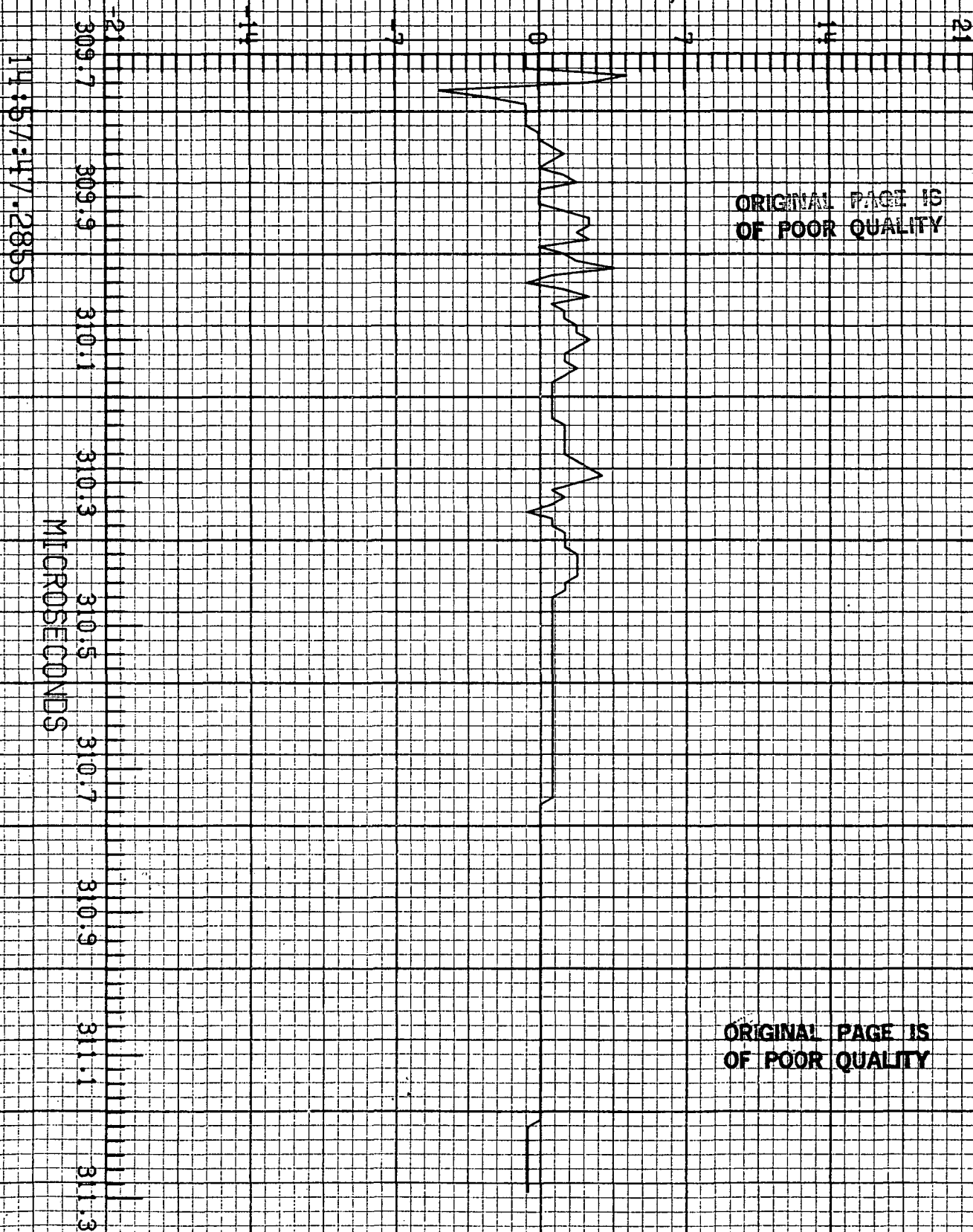
F106 LIGHTNING/83-013/M. THOMAS

TEST NO. 83-013

RUN NO. 1

S-001

D DOT FWD A/m^2



F106 LIGHTNING/83-013/M. THOMAS

TEST NO. 83-013

RUN NO. 2

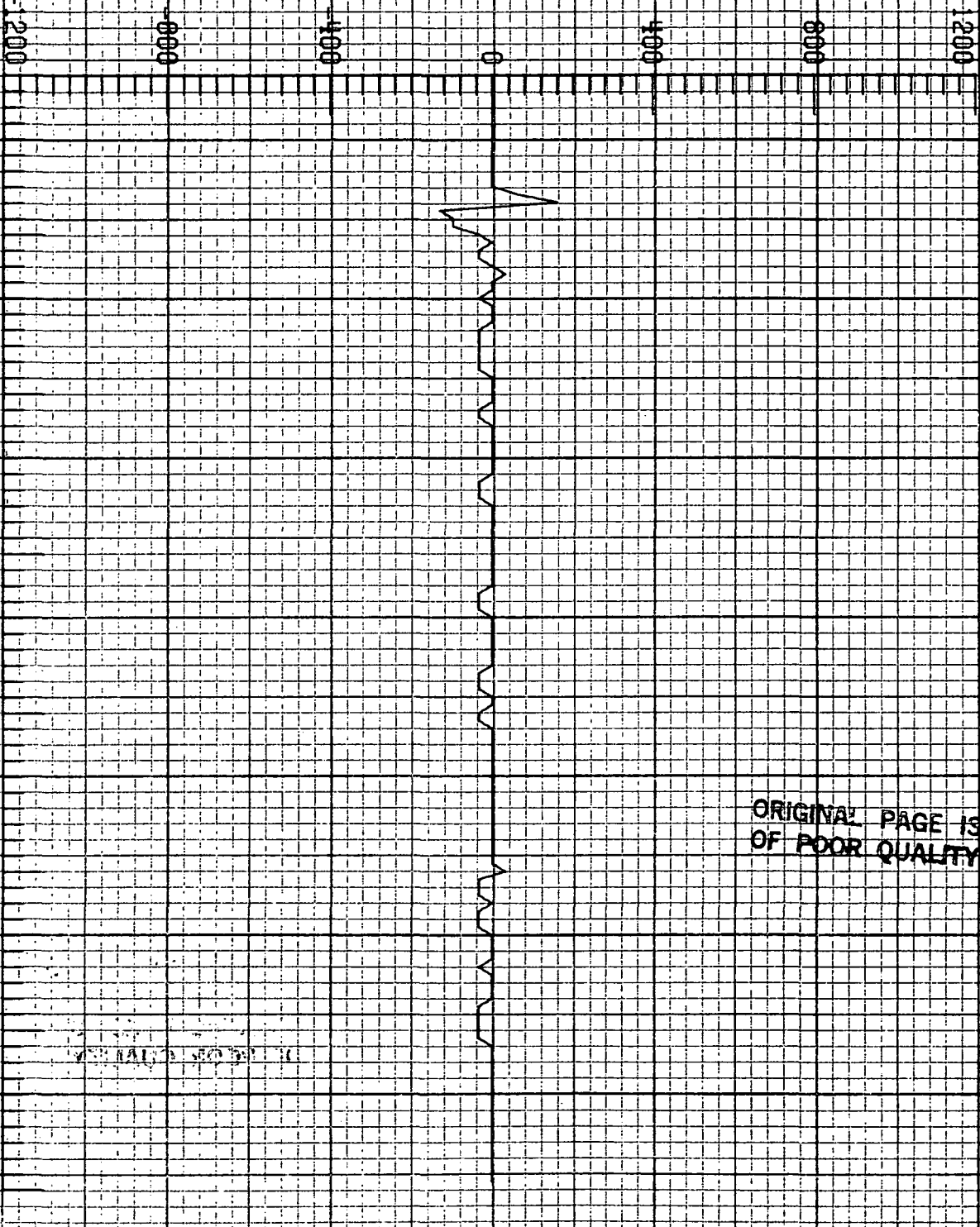
S-002

B DOT L T/S

15:07:41.0843

MICROSECONDS

329.8 330.0 330.2 330.4 330.6 330.8 331.0 331.2



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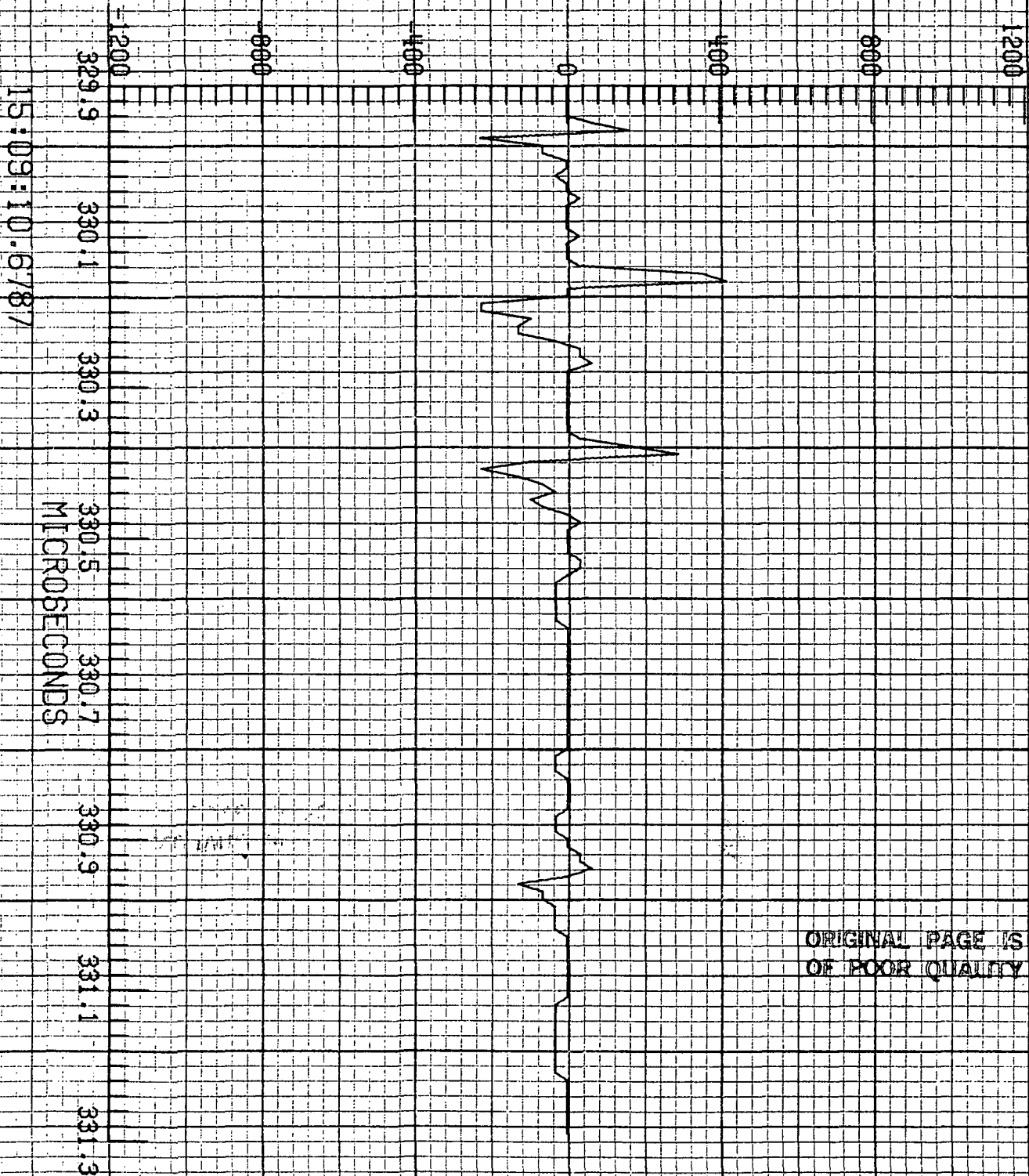
F106 LIGHTNING/83-018/M. THOMAS

TEST NO. 83-018

RUN NO. 3

S-003

B DOT II T/S



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F106 LIGHTNING/88-013/M. THOMAS

TEST NO. 83-013

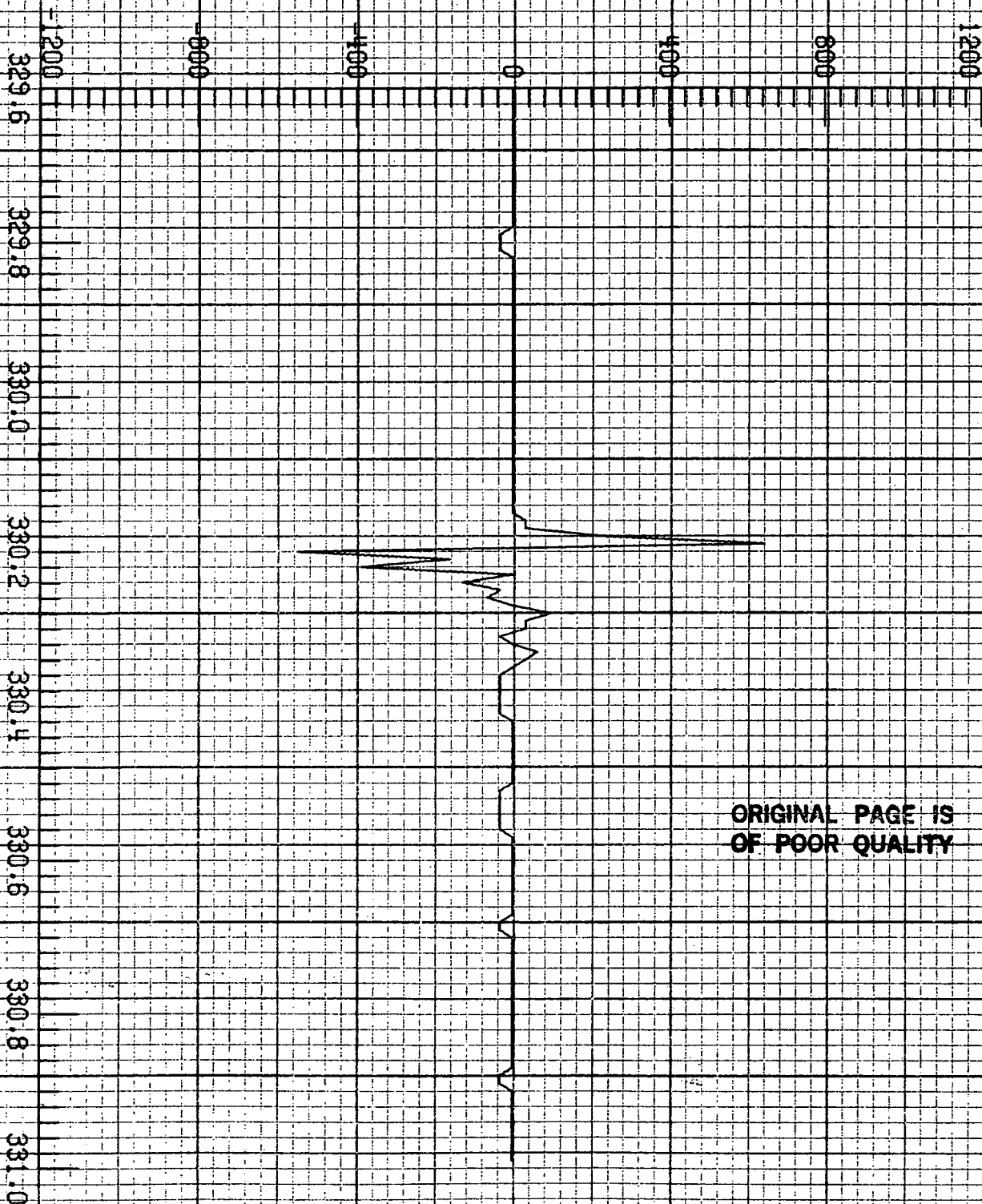
RUN NO. 4

S-004

B DOT I T/S

15:09:22.0012

MICROSECONDS



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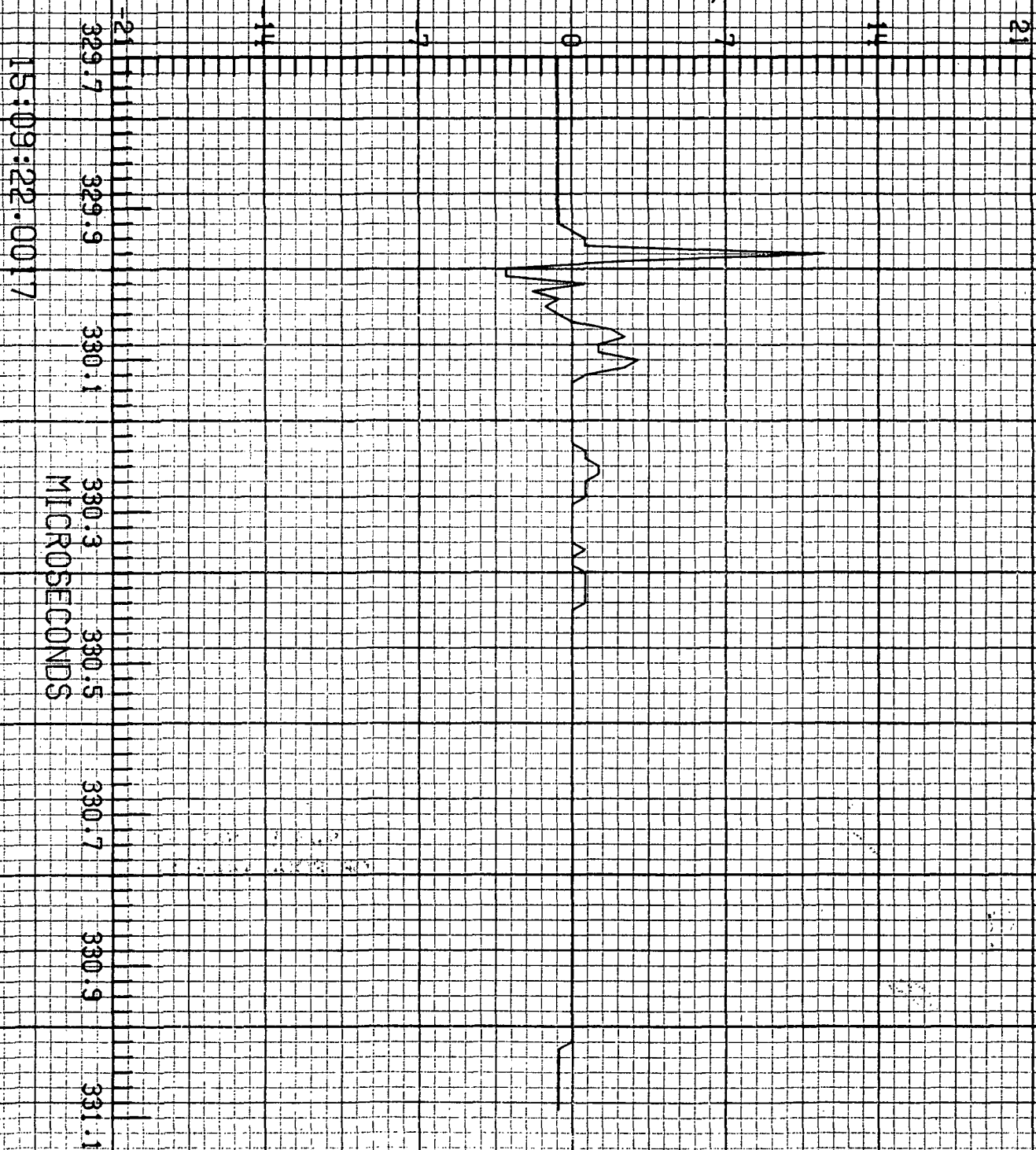
F106 LIGHTNING/83-013/M. THOMAS

TEST NO. 83-01

RUN NO. #

S-004

D DOT FWD A/m^2

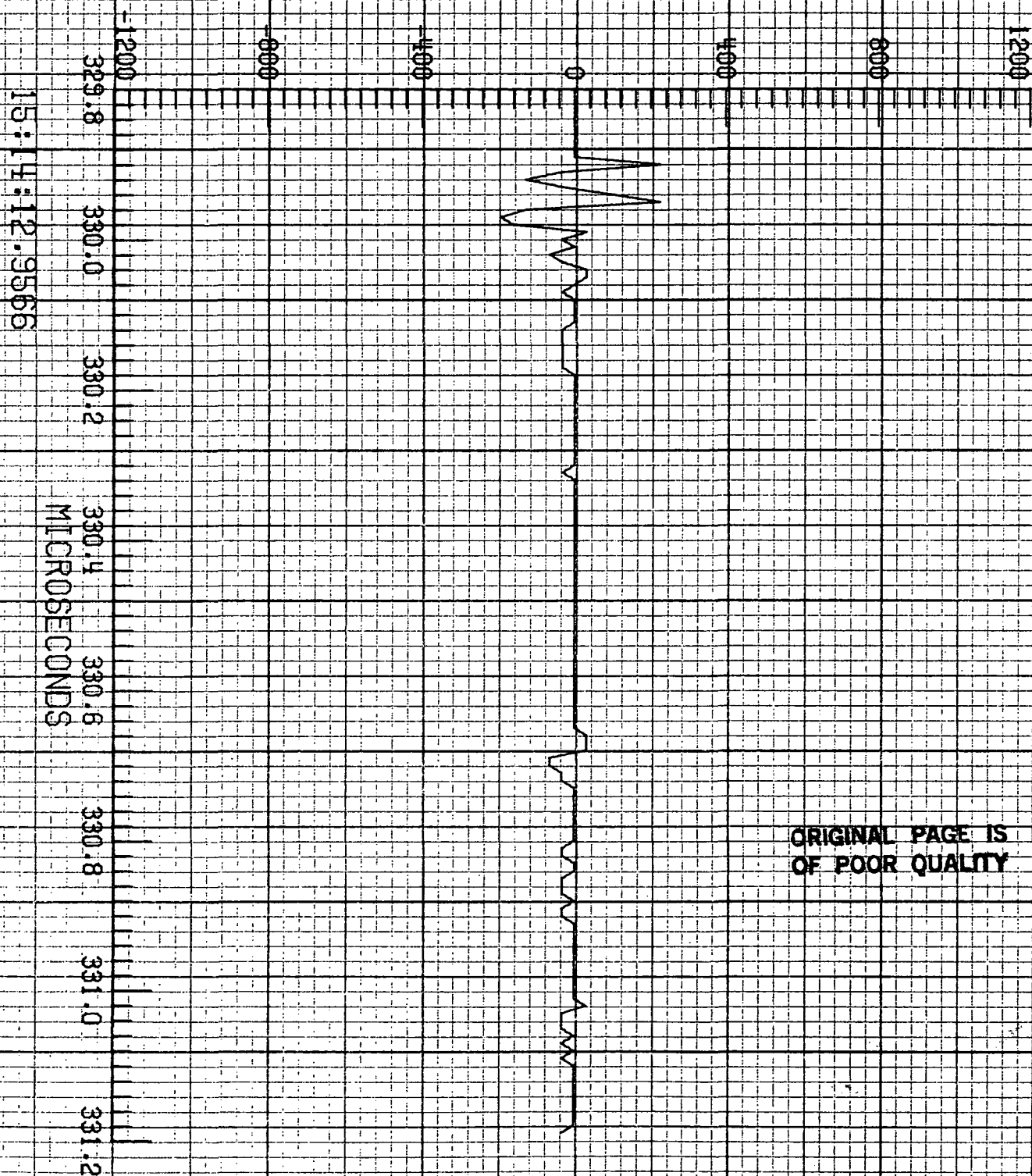


015

RUN NO. 5

S-005

B DOT 1 T/S



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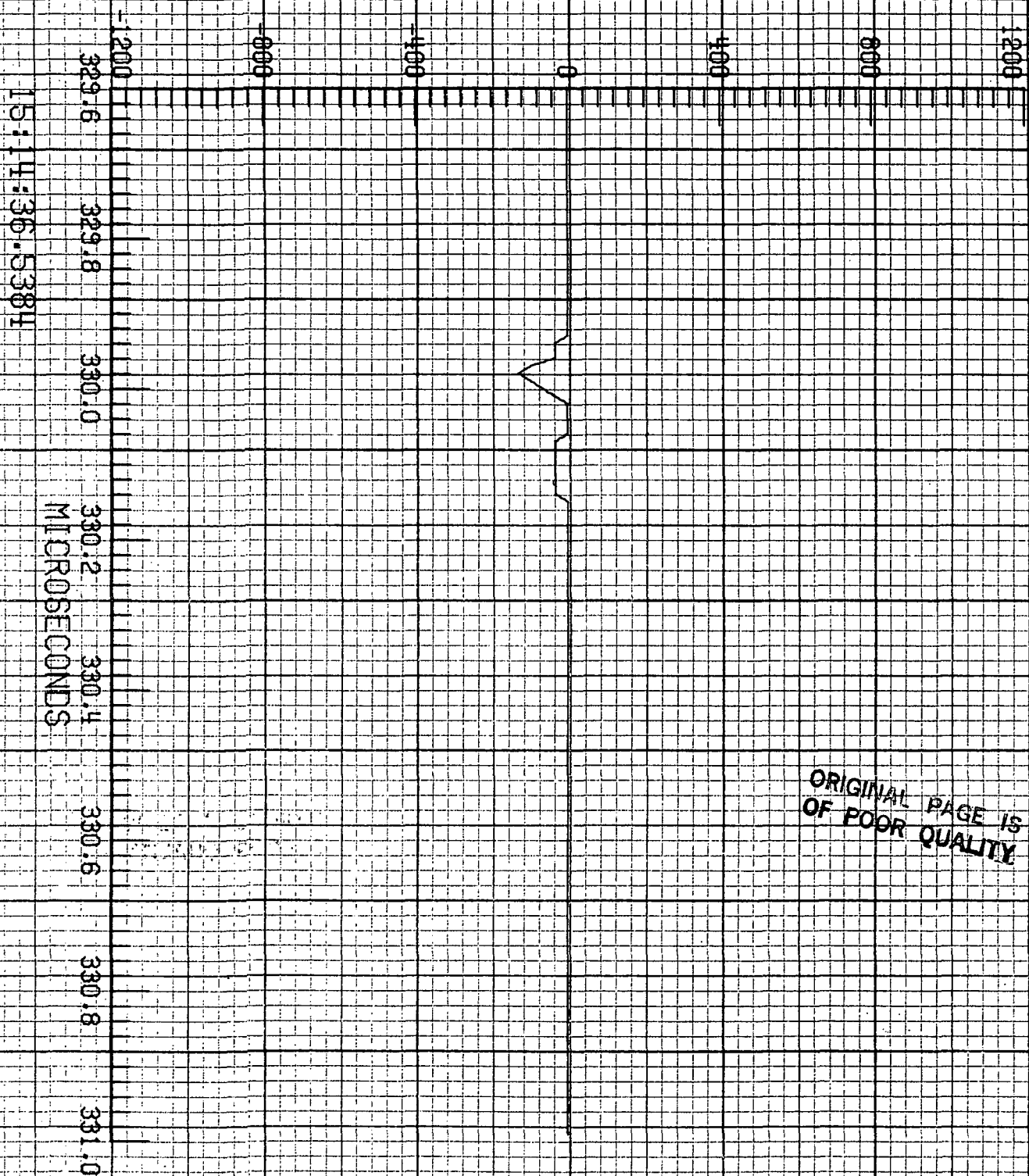
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TEST NO. 83-013

RUN NO. 6

S-006

B DOT L T/S



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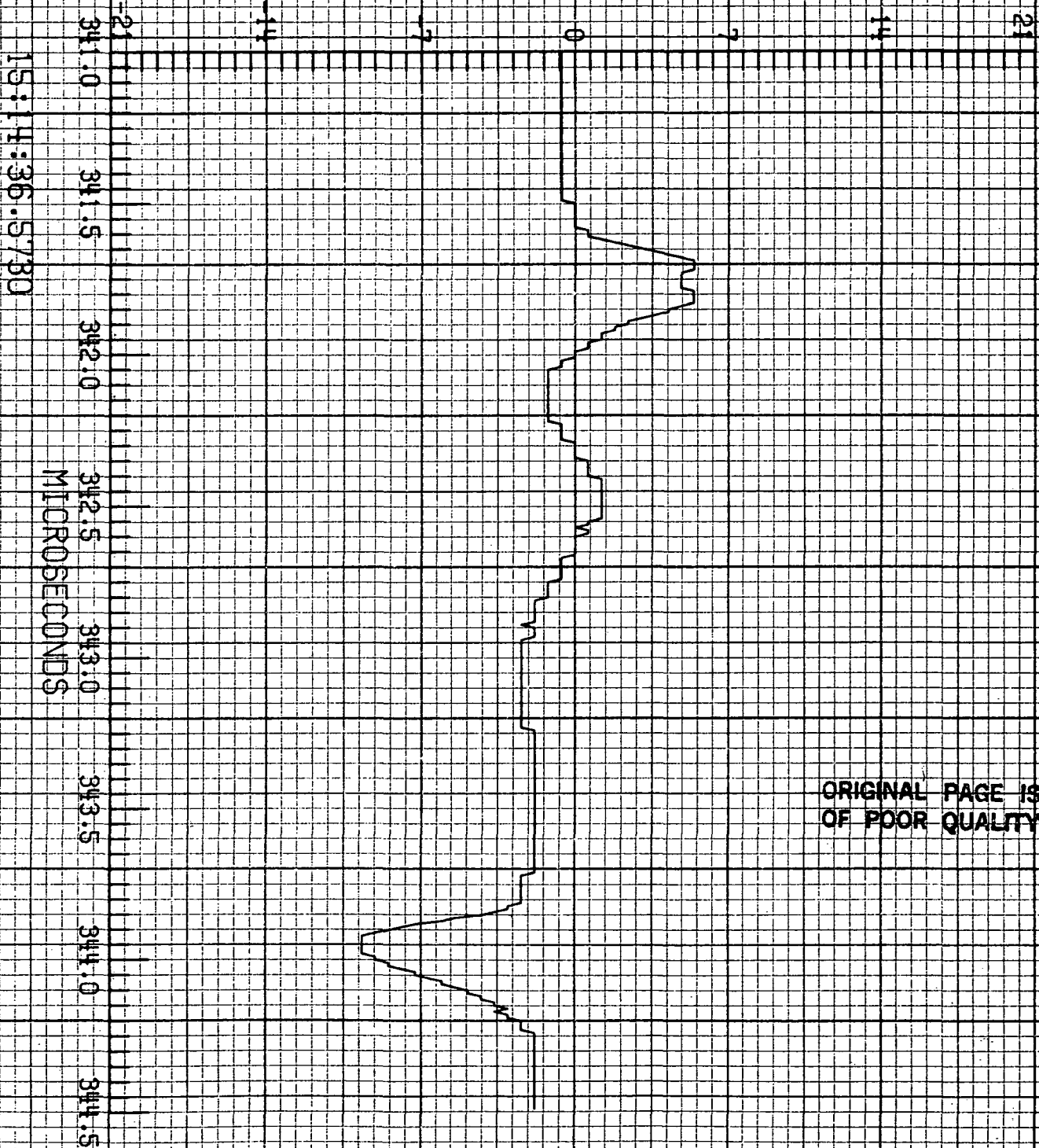
F106 LIGHTNING/83-013/M. THOMAS

TEST NO. 83-01

RUN NO. 6

S-006

D DOT FWD A/m^2



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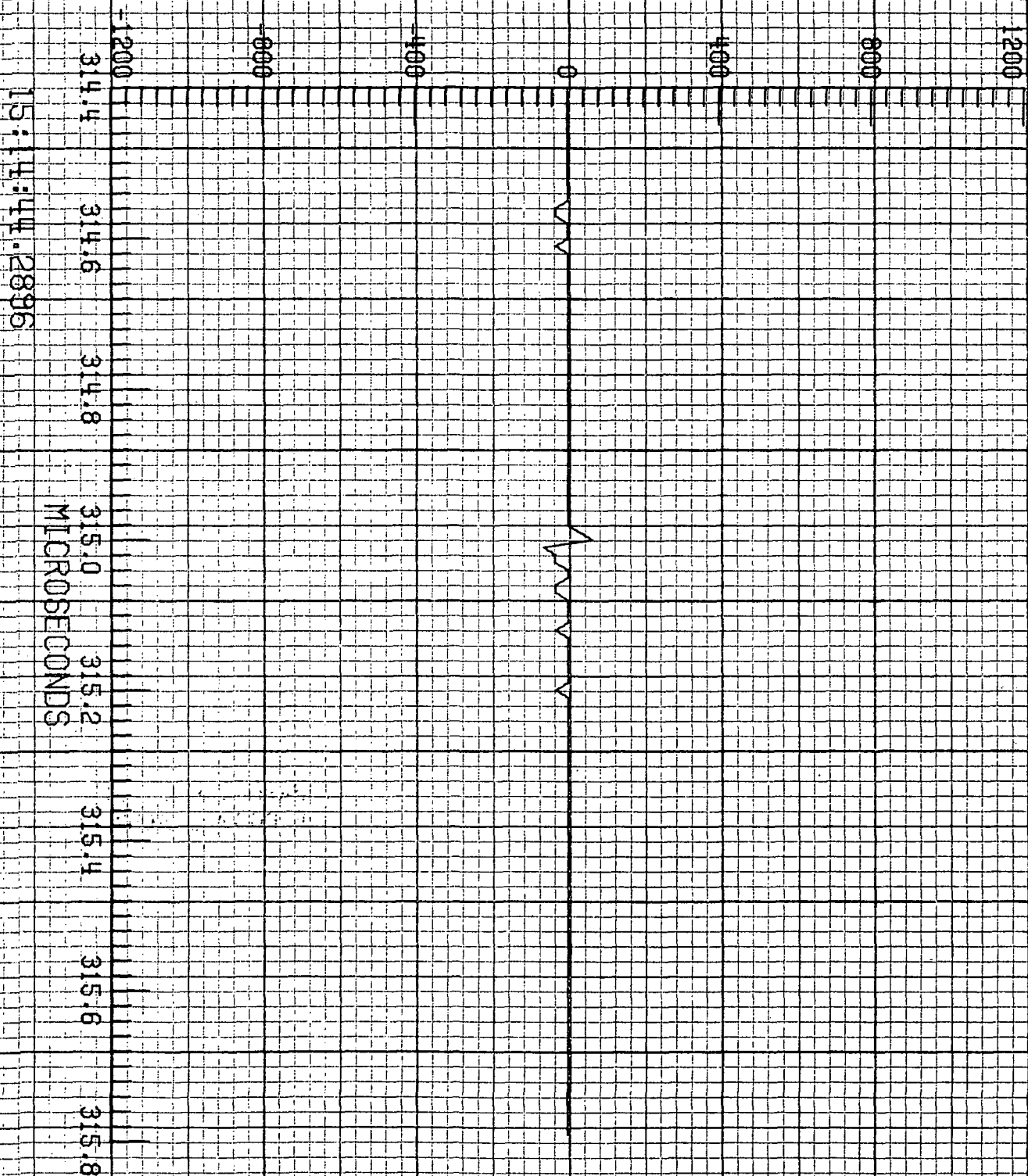
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TEST NO. 83-013

RUN NO. 7

S-007

B DOT L T/S



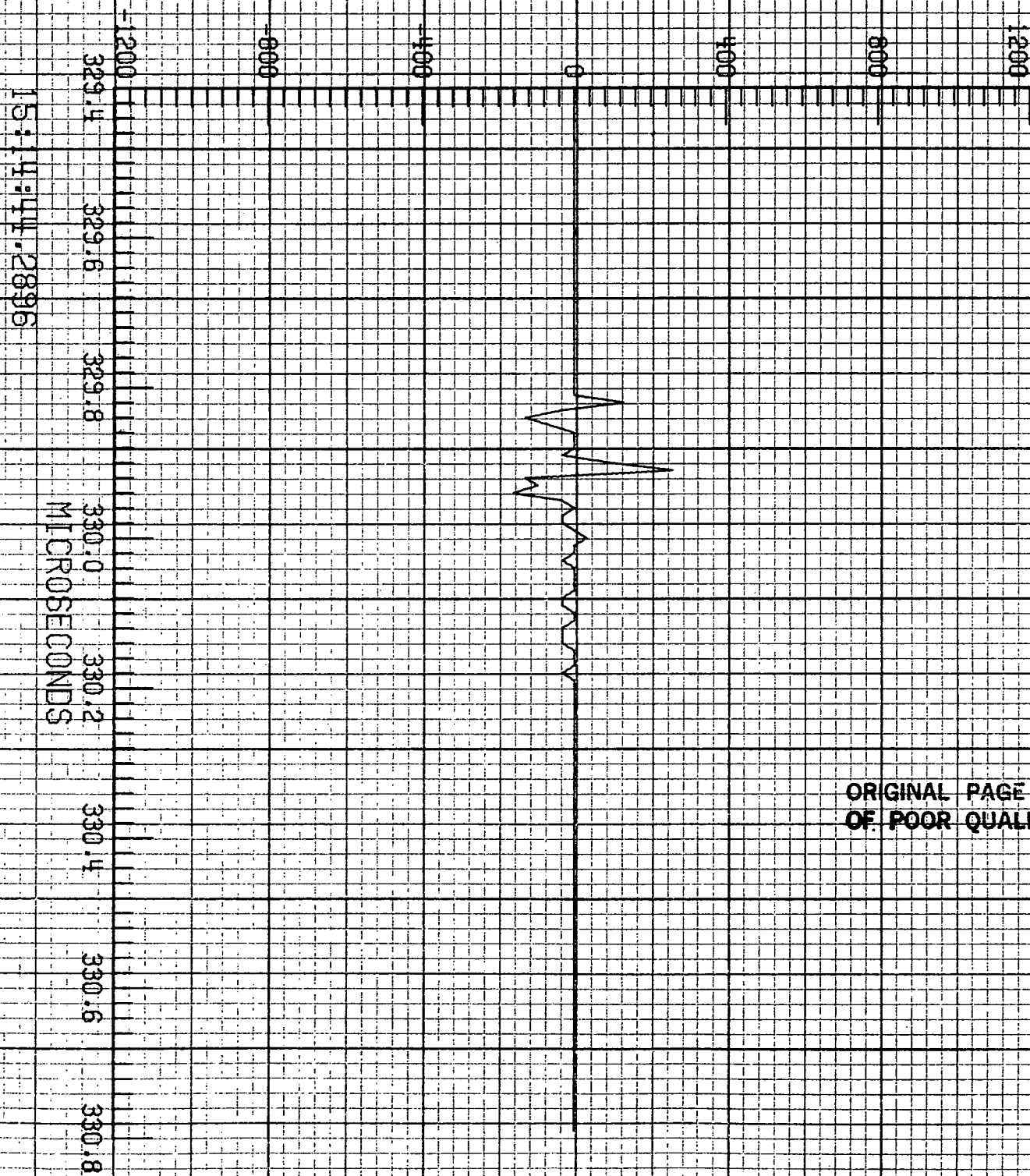
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TEST NO. 83-013

RUN NO. 7

S-007

B DOT L T/S



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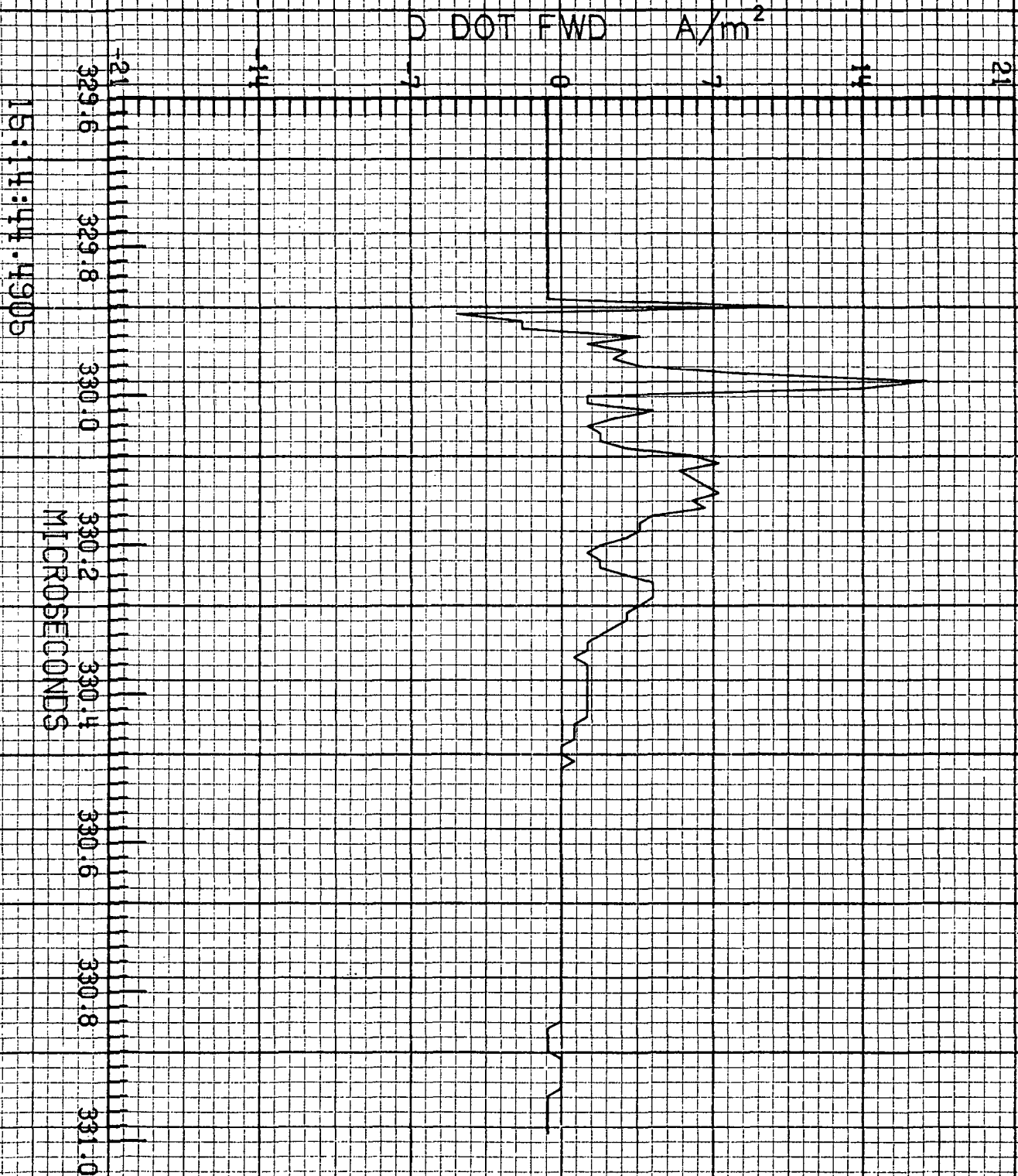
F106 LIGHTNING/83-013/M. THOMAS

TEST NO. 83-013

RUN NO. 7

S-007

D DOT FWD A/m^2



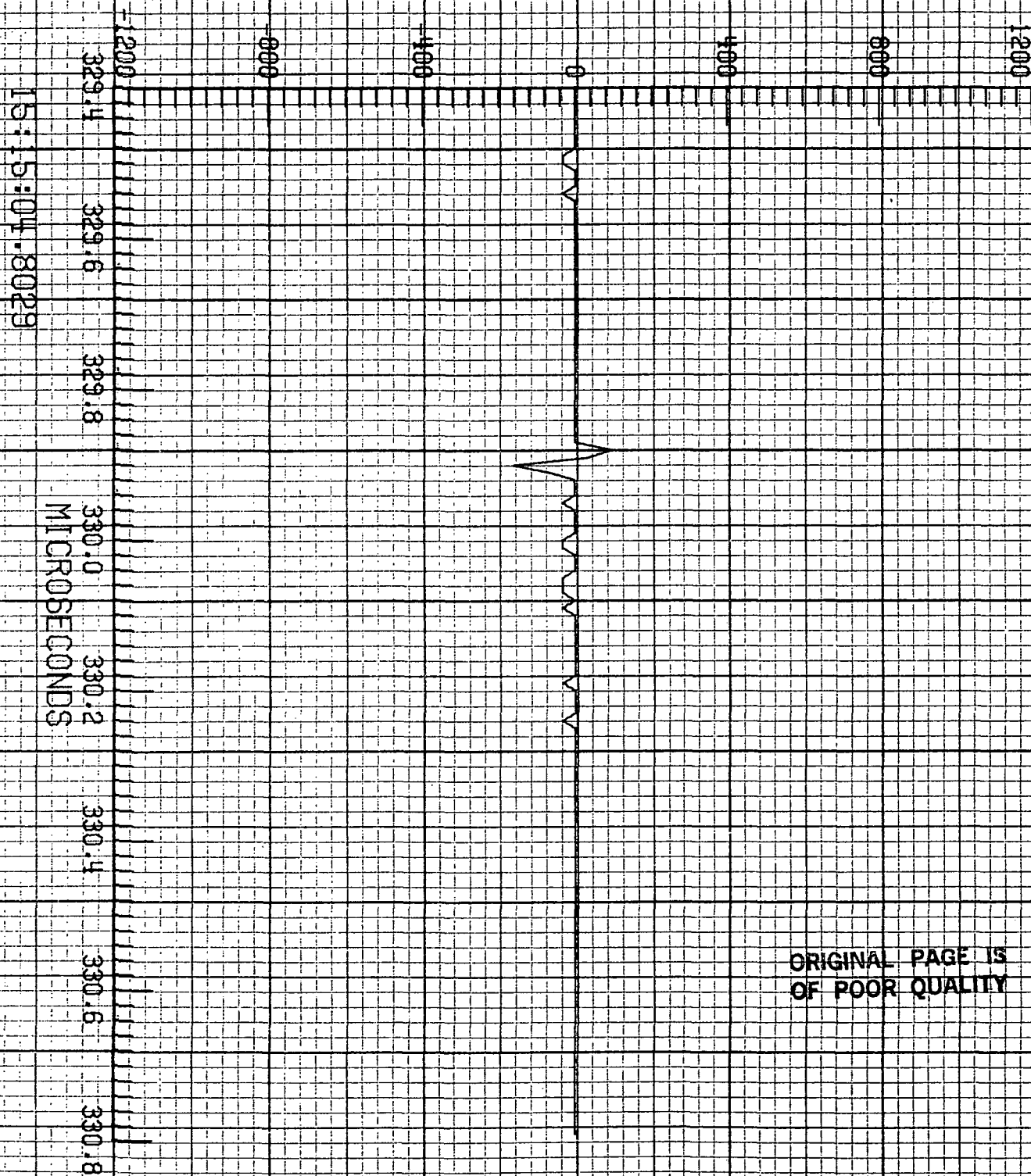
F106 LIGHTNING/83-013/M.THOMAS

TEST NO. 83-013

RUN NO. 8

N-001

B DOT L T/S



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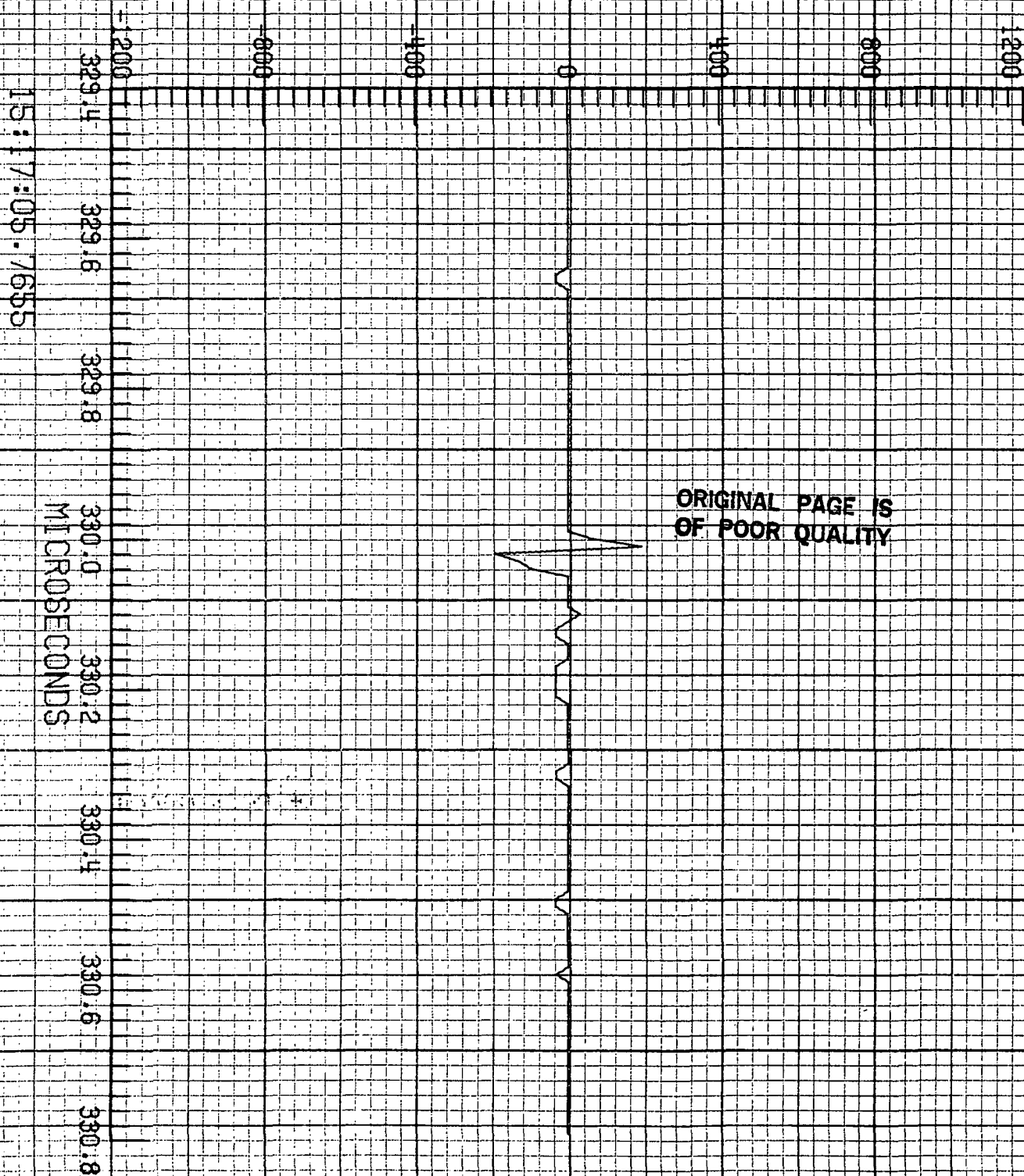
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TEST NO. 83-013

RUN NO. 8

S-003

B DOT L T/S



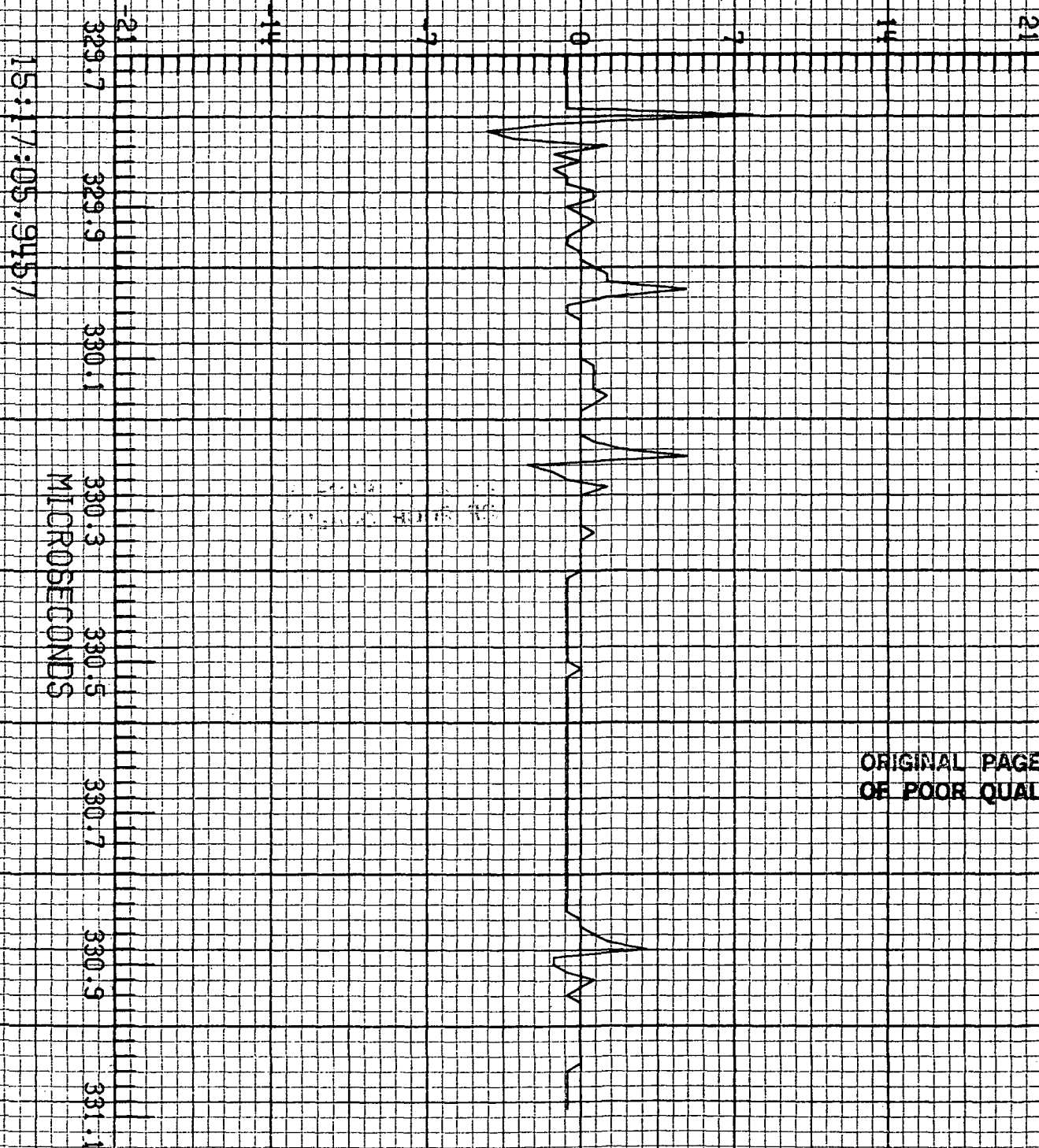
F106 LIGHTNING/88-013/M. THOMAS

TEST NO. 83-013

RUN NO. 0

S-009

D DOT FWD A/m^2



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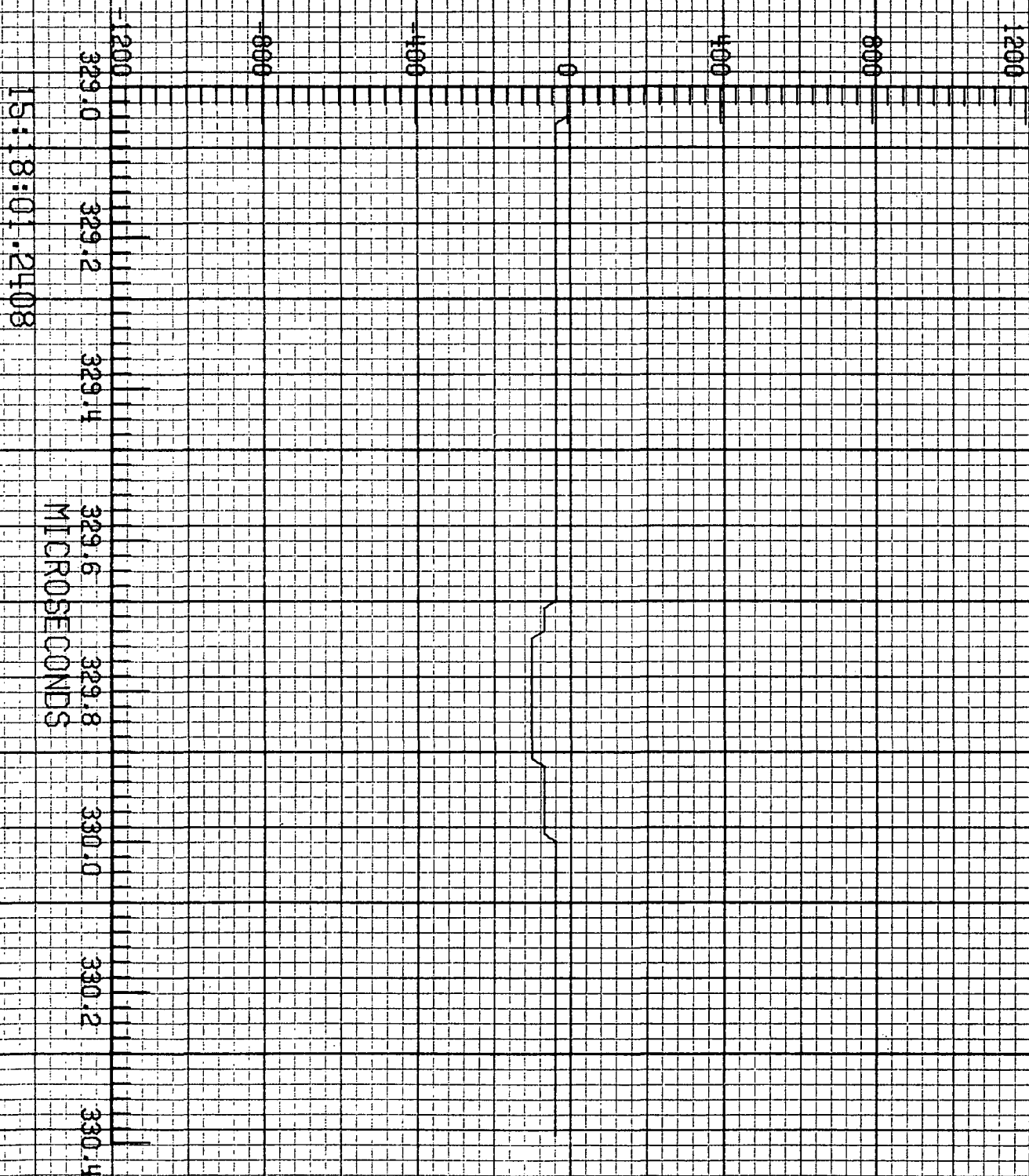
F106 LIGHTNING/83-013/M. THOMAS

TEST NO. 83-013

RUN NO. 10

S-010

B DOT L T/S



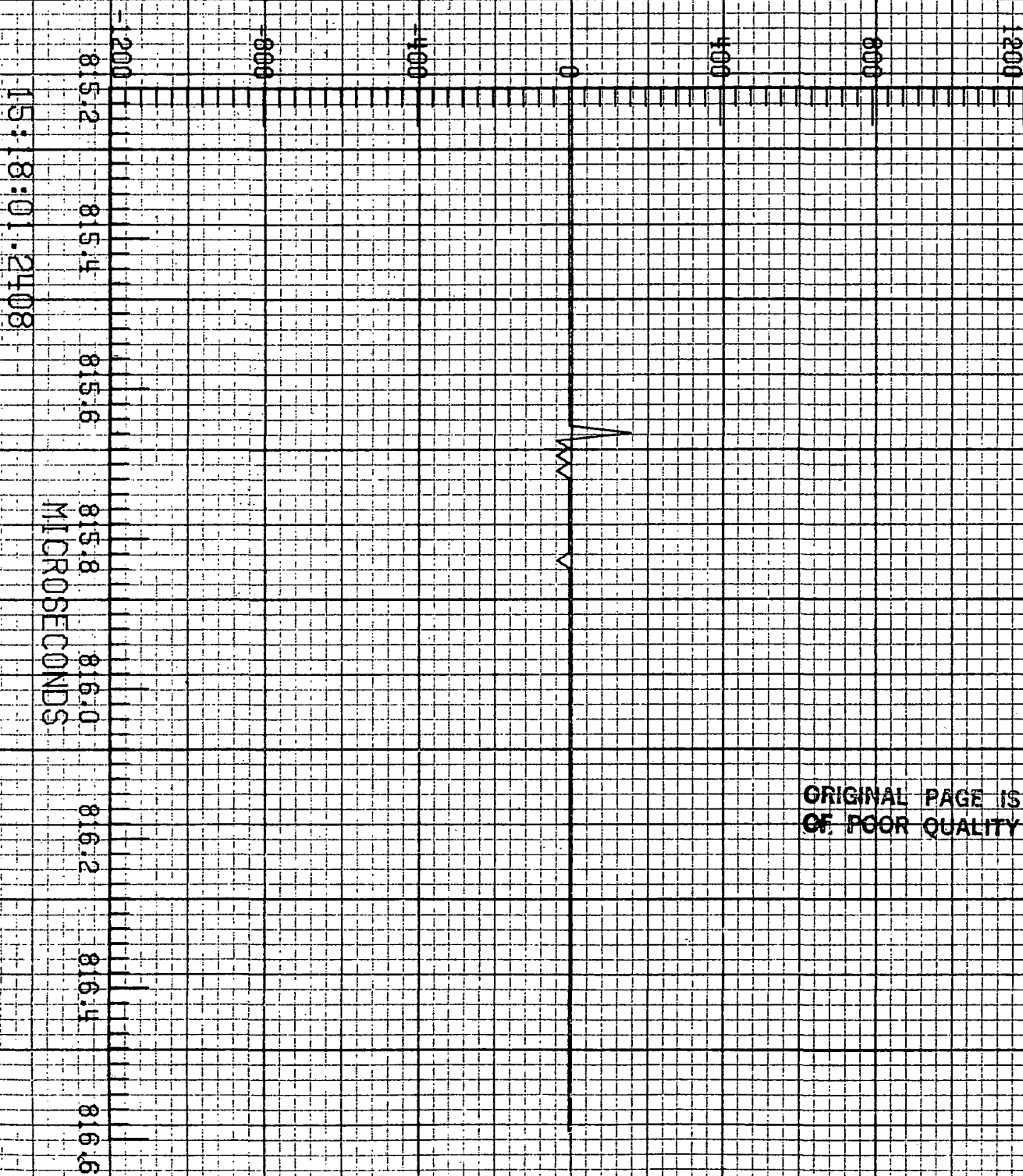
F106 LIGHTNING/83-013/M. THOMAS

TEST NO. 83-013

RUN NO. 10

S-010

B DOT L T/S



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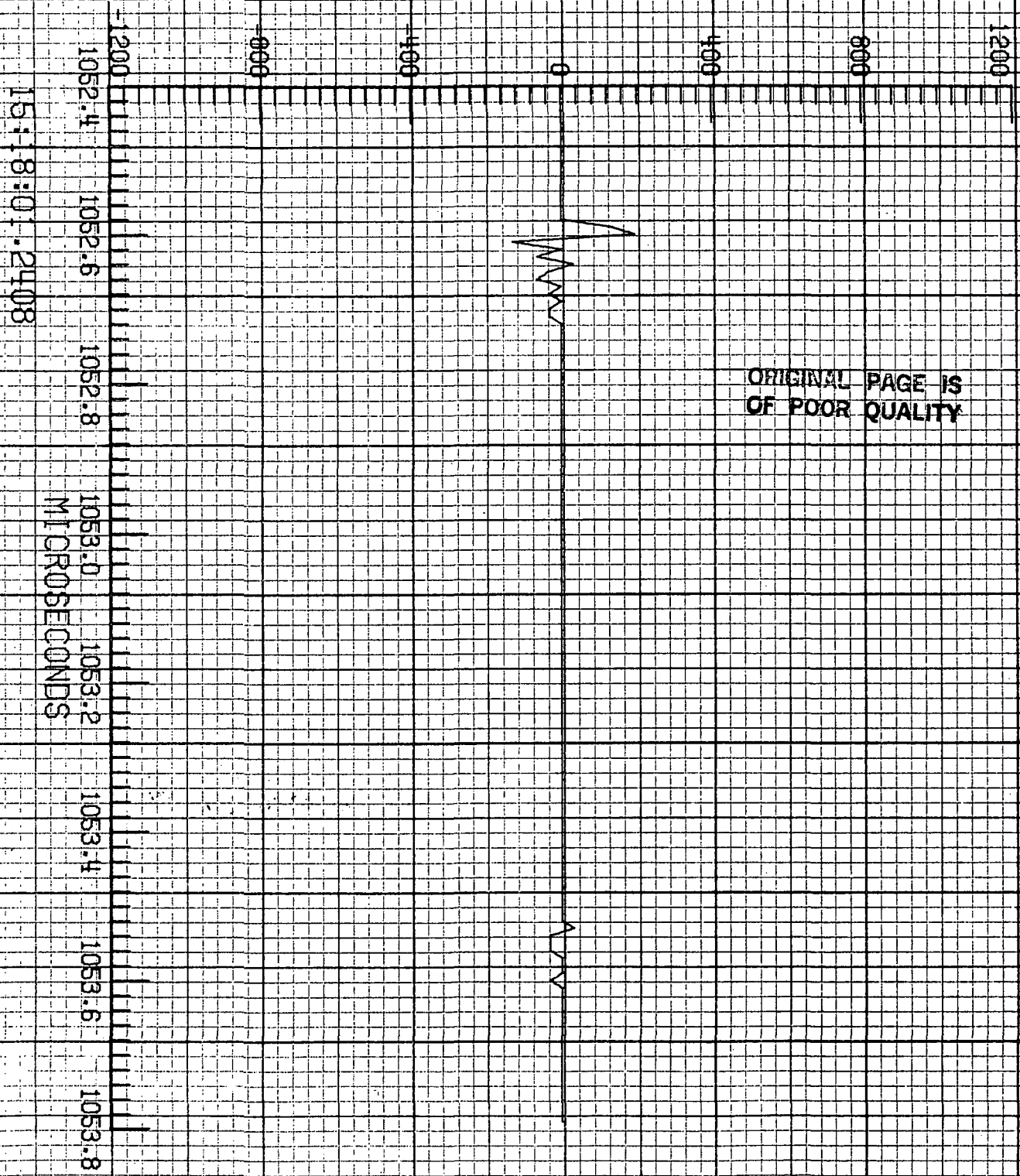
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TEST NO. 83-013

RUN NO. 10

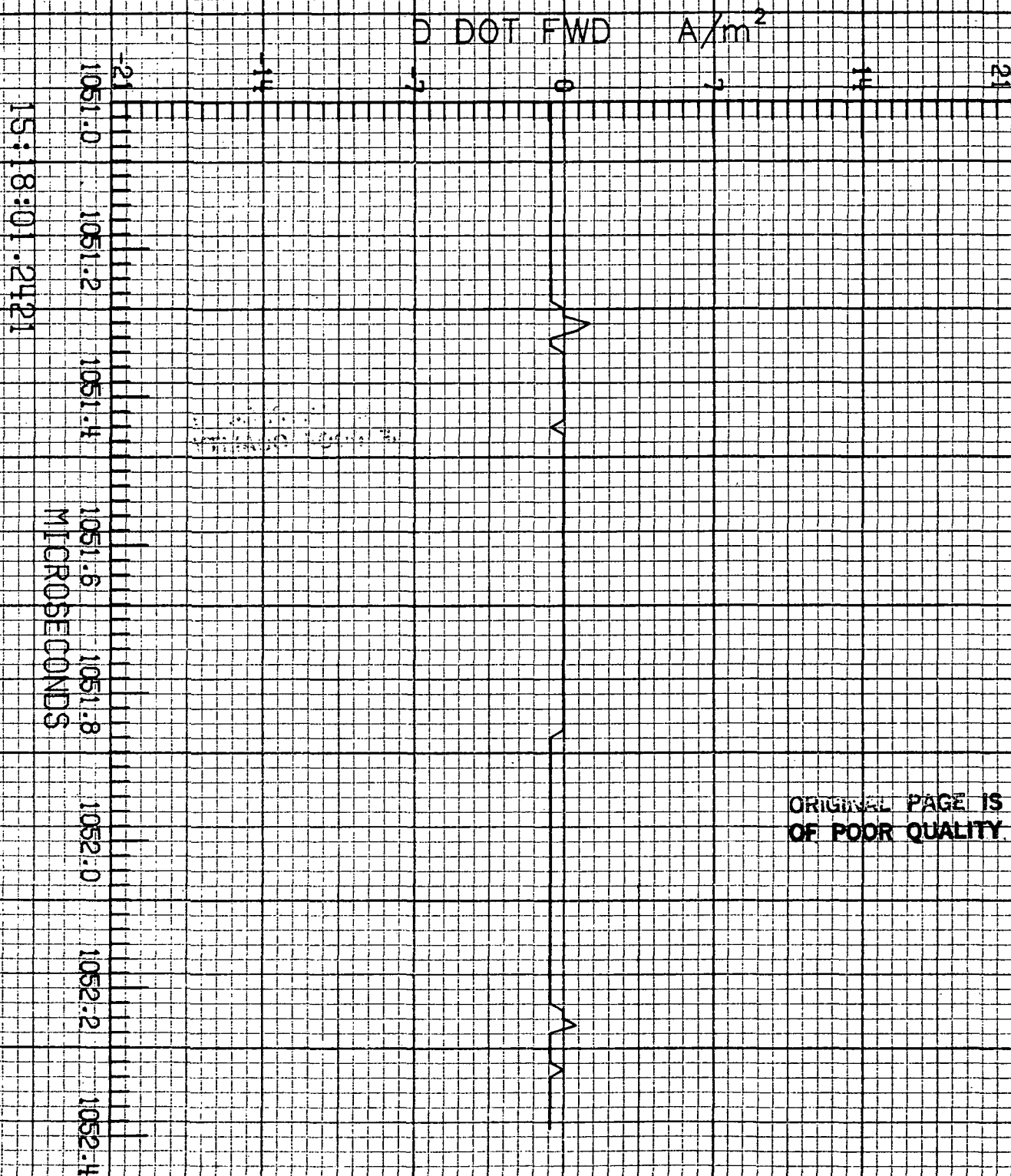
S-010

B DOT L T/S



F106 LIGHTNING/83-013/M. THOMAS
RUN NO. 10 S-010

TEST NO. 83-01



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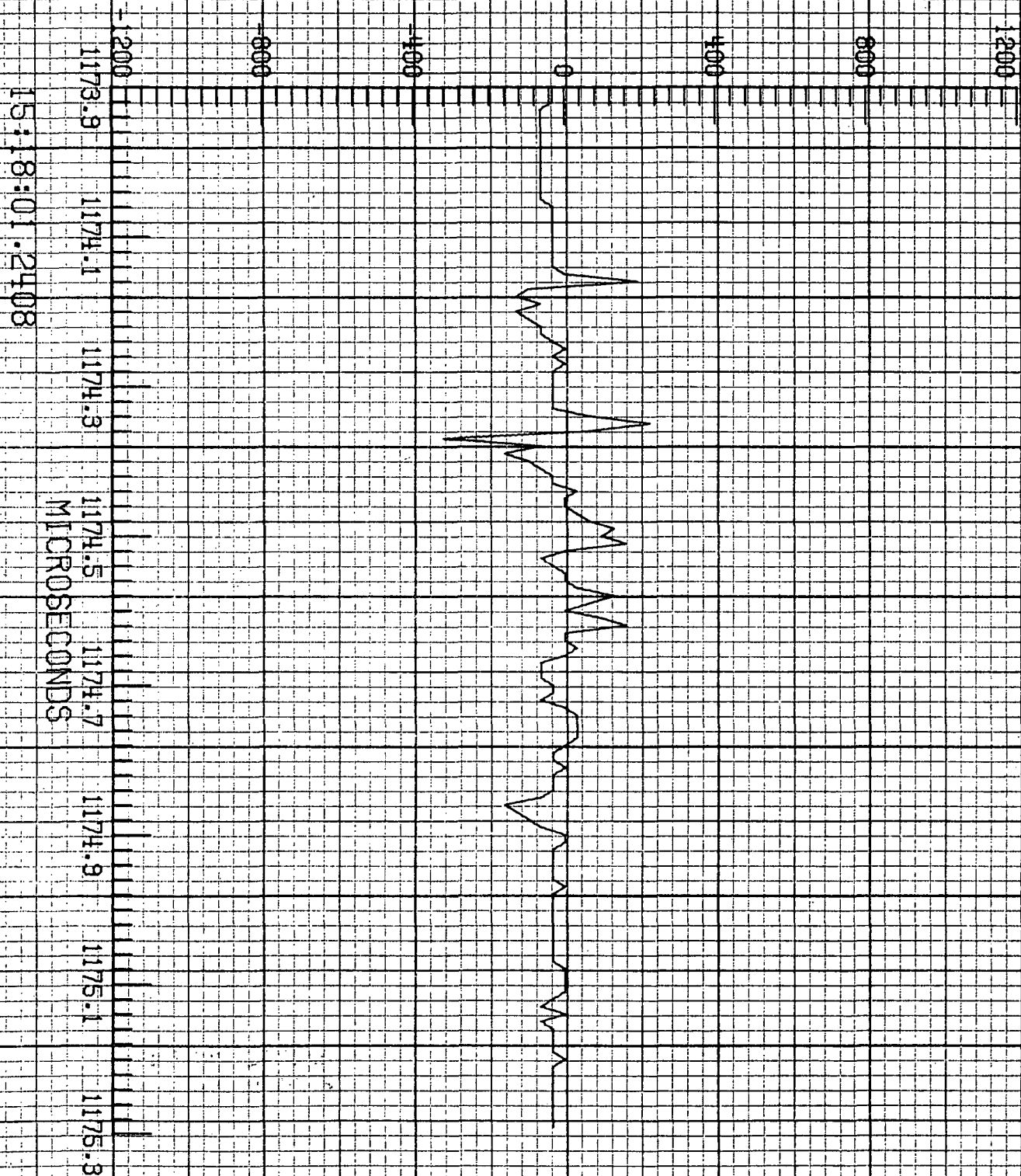
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TEST NO. 83-013

RUN NO. 10

S-010

B DOT L T/S



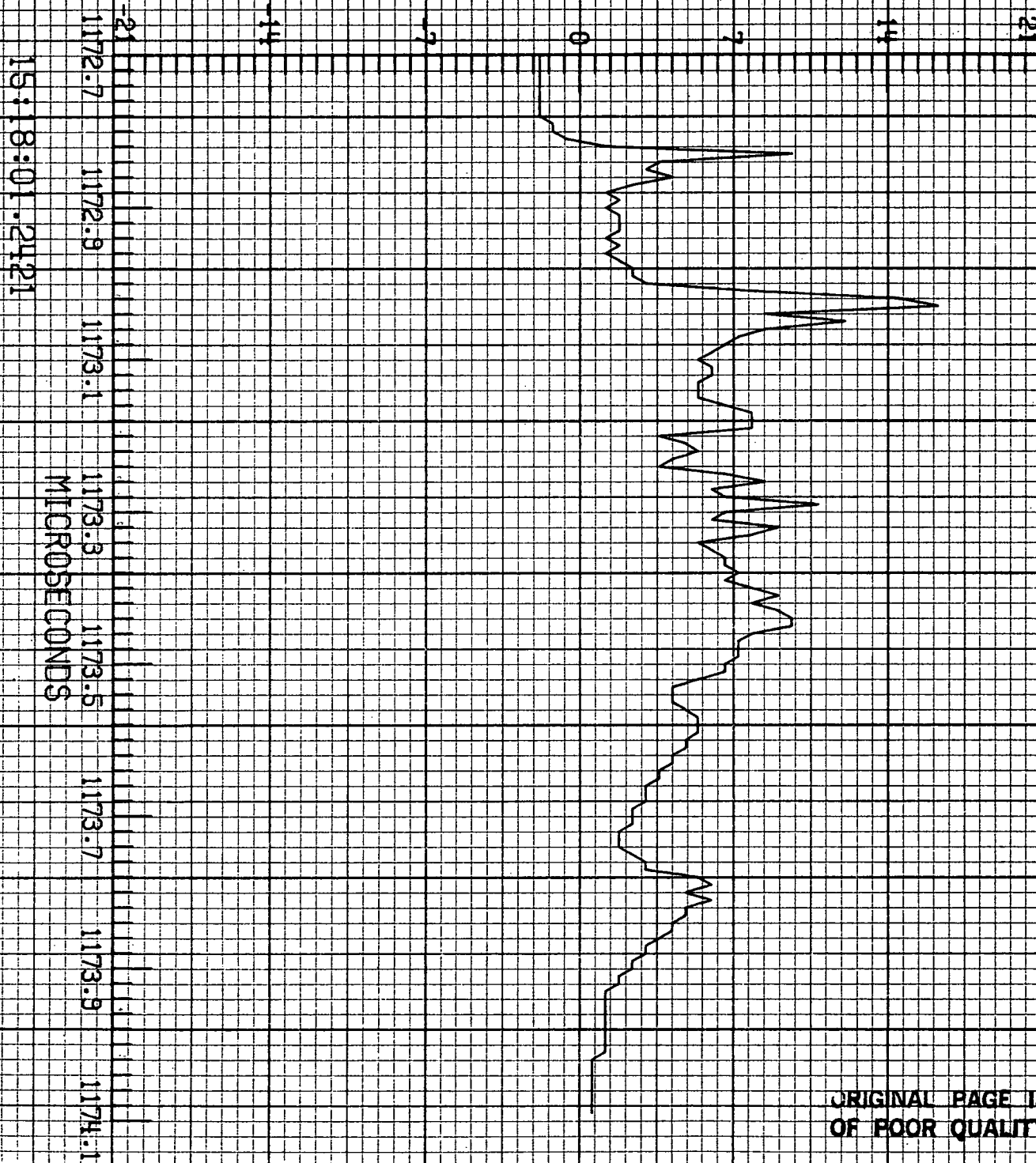
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TEST NO. 83-013

RUN NO. 10

S-010

D DOT FWD A/m^2



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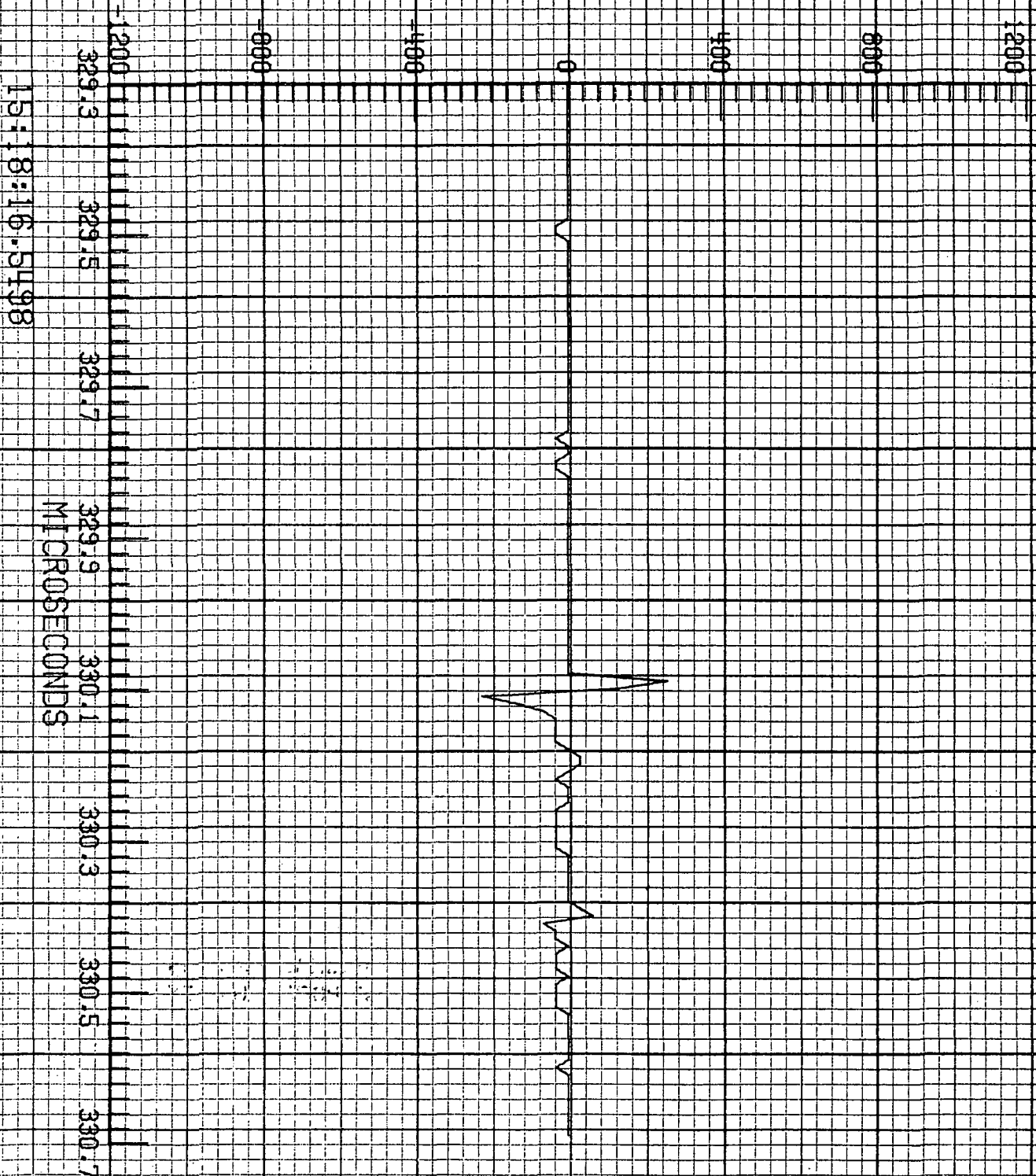
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TEST NO. 83-013

RUN NO. 11

S-011

B DOT L T/S



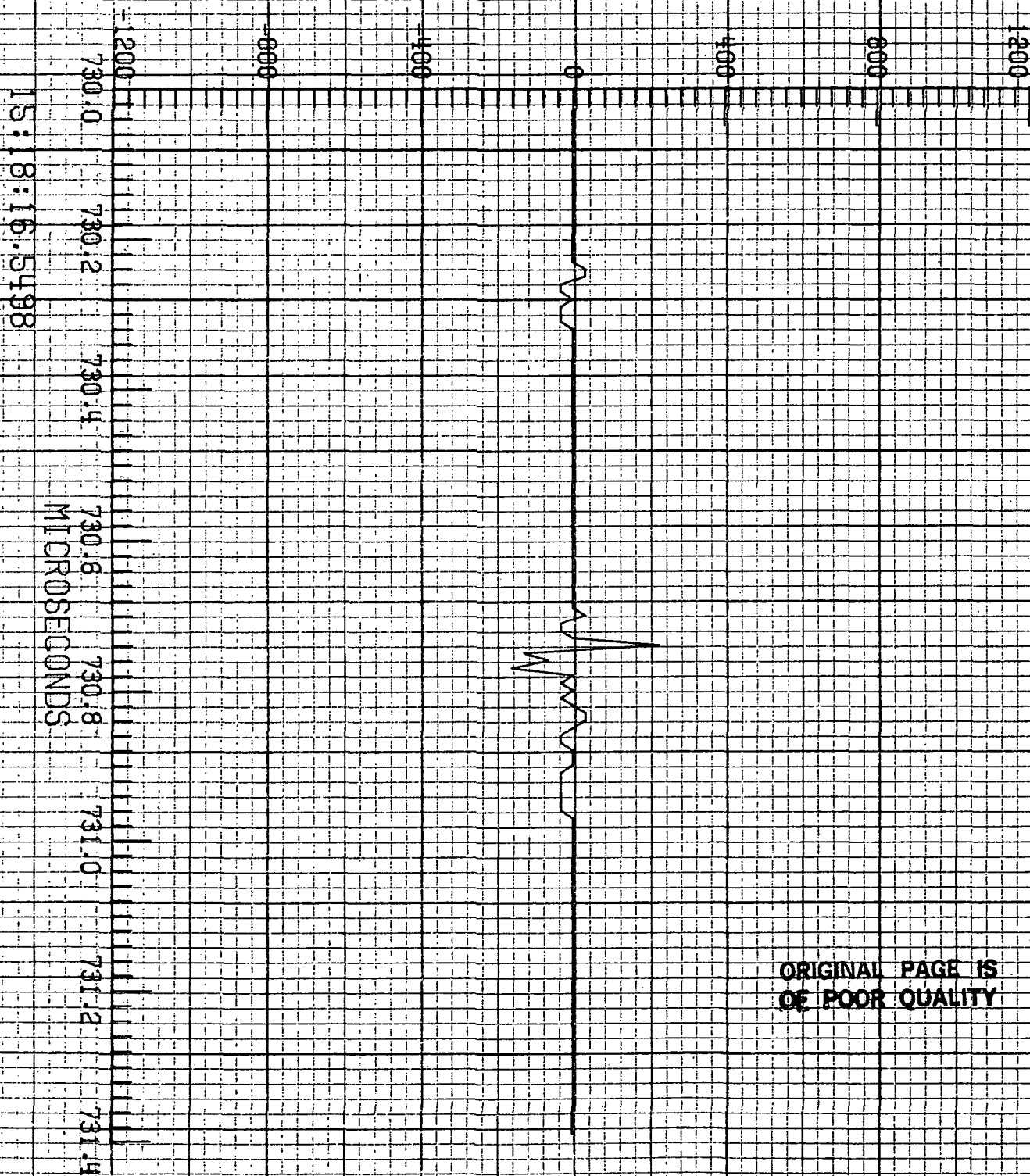
F106 LIGHTNING/83-013/M. THOMAS

TEST NO. 83-013

RUN NO. 11

S-011

B DOT L T/S



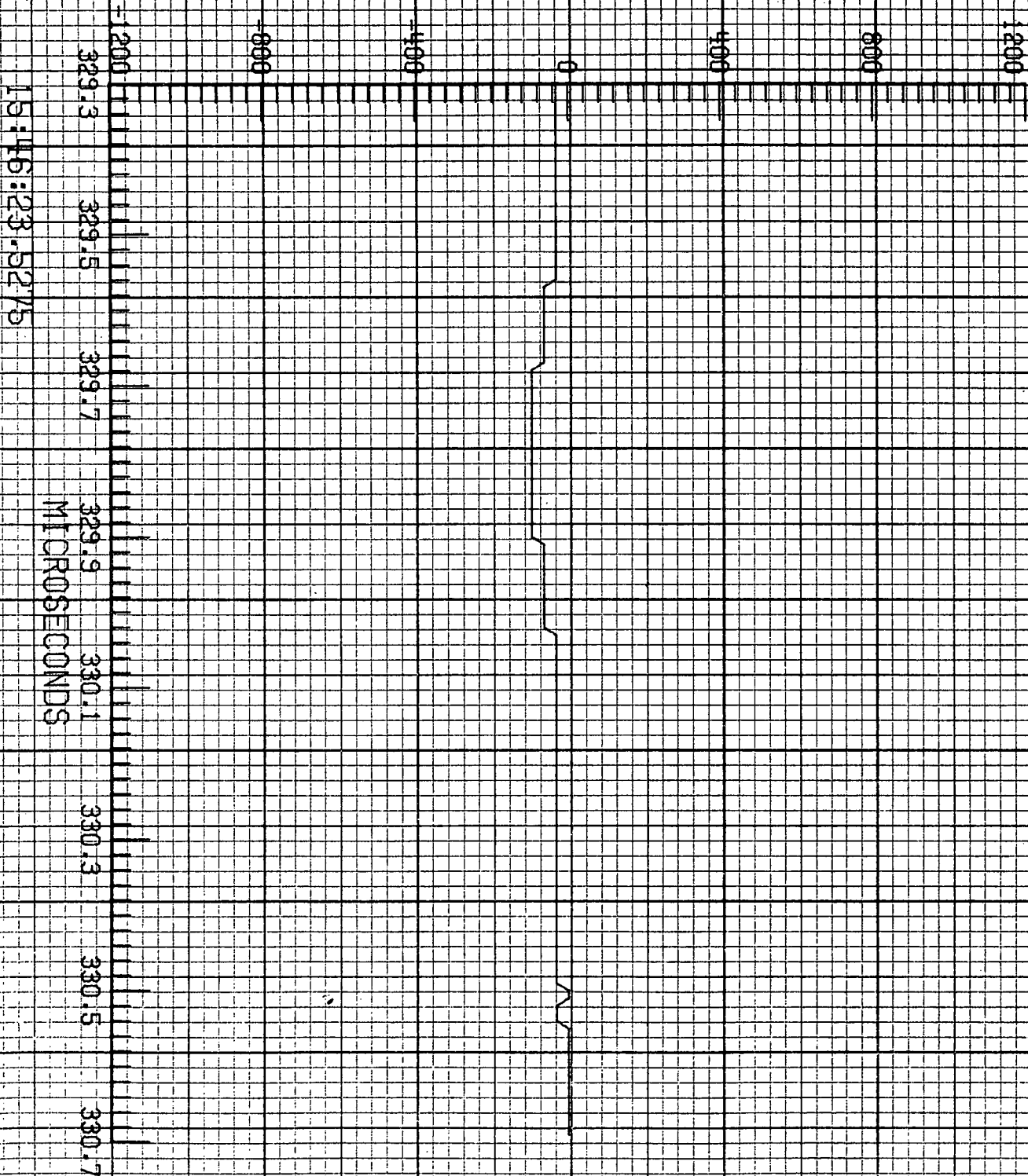
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F106 LIGHTNING/83-013/M. THOMAS
RUN NO. 12 S-012

TEST NO. 83-013

B DOT L T/S



F106 LIGHTNING/83-013/M. THOMAS

TEST NO. 83-01

RUN NO. 12

S-012

D DOT FWD A/m^2

-21 -14 -7 0 7 14 21

328

329

330

331

332

333

334

335

15:46:23.5283

MICROSECONDS

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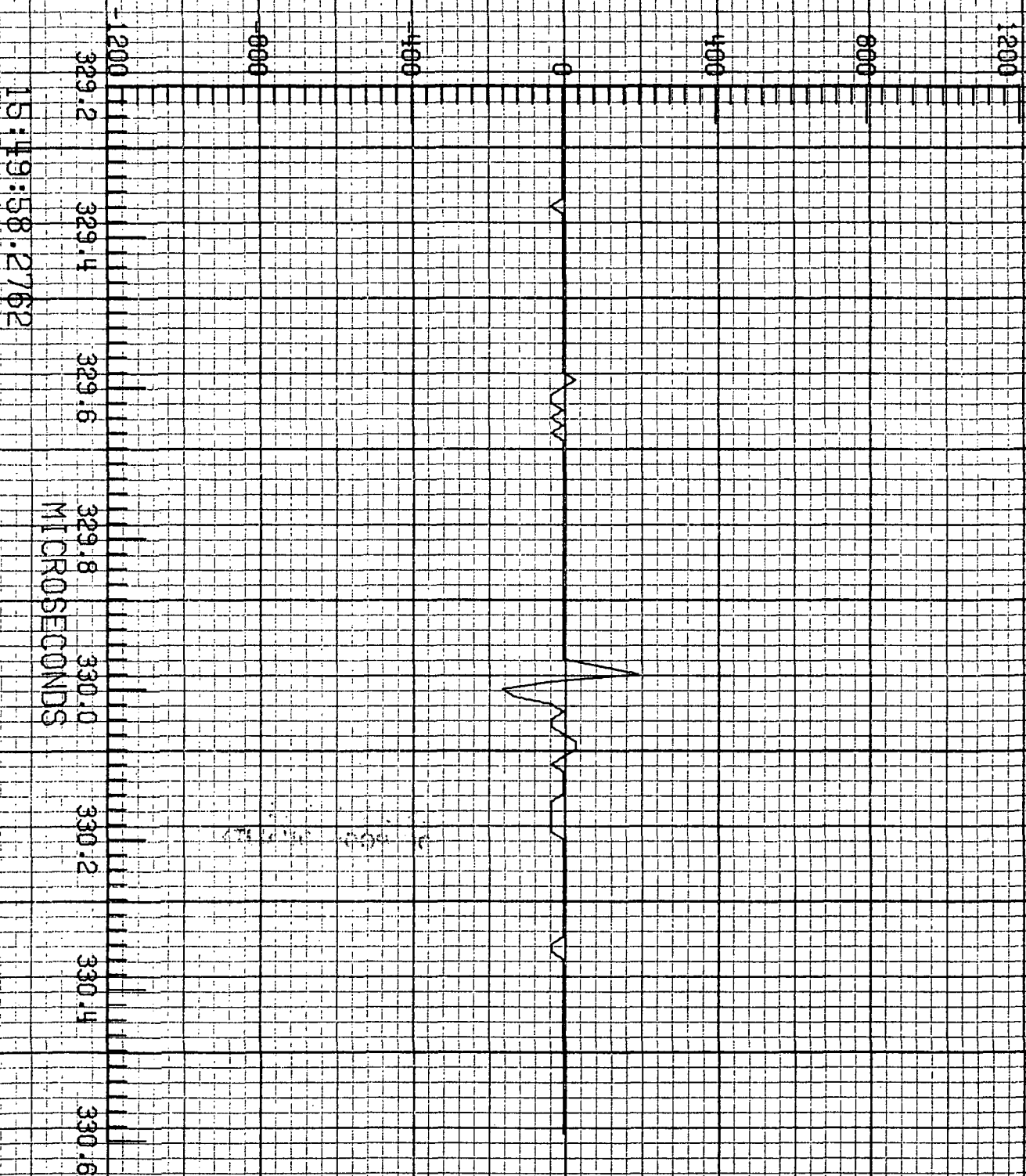
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TEST NO. 83-013

RUN NO. 13

S-013

B DOT L T/S



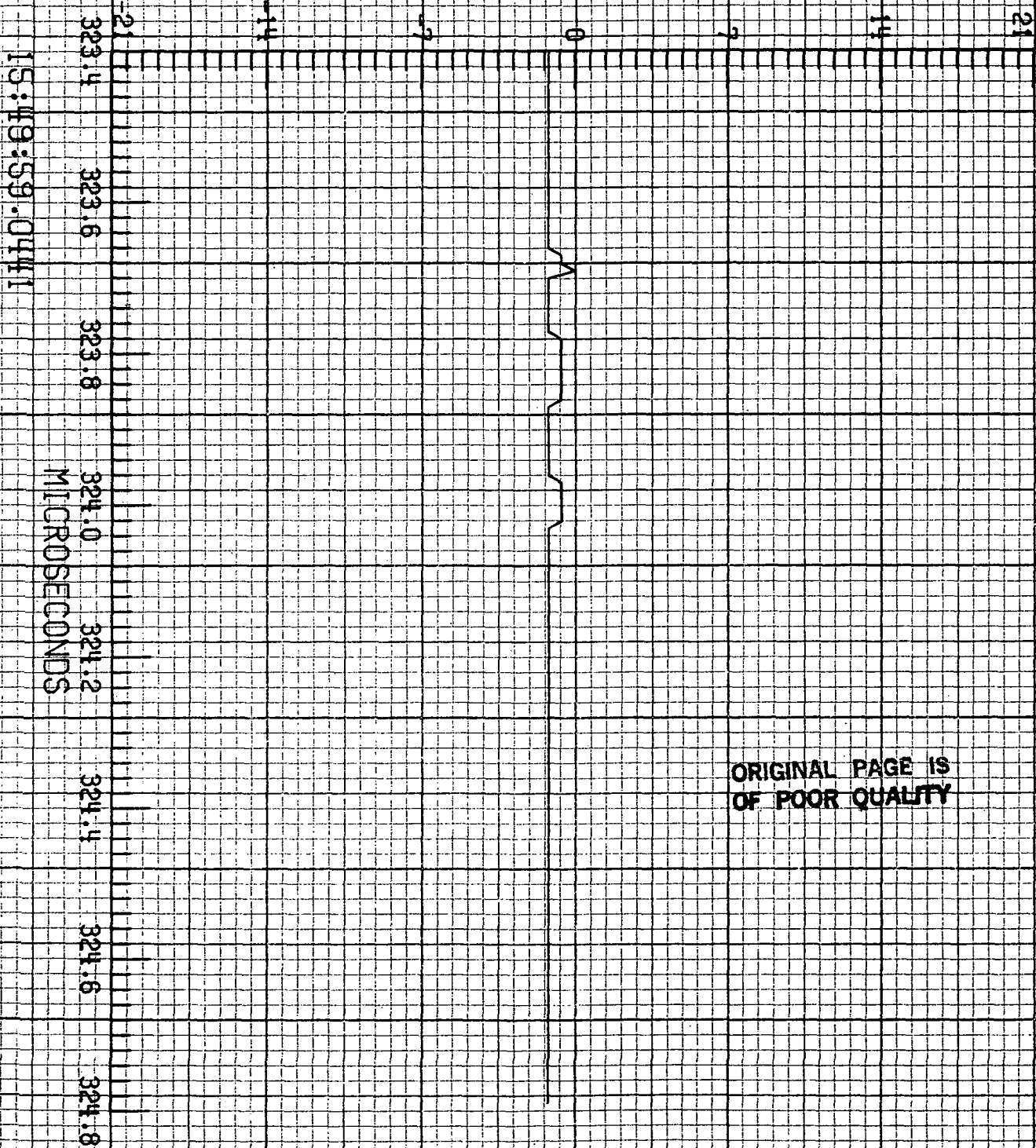
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TEST NO. 83-013

RUN NO. 13

S-013

D DOT FWD A/m^2



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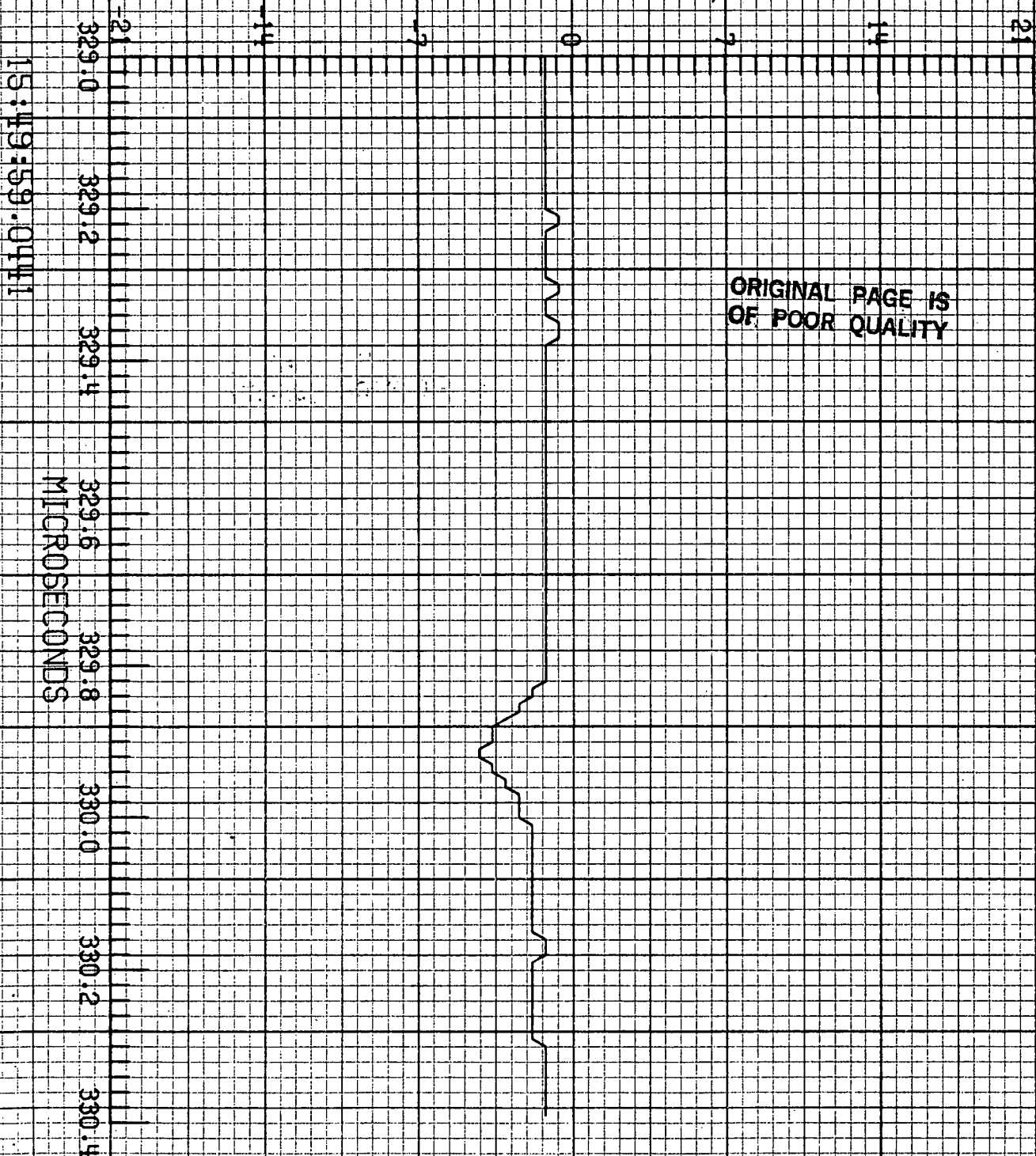
106 LIGHTNING/83-013/M. THOMAS

TEST NO. 83-013

RUN NO. 13

S-013

D DOT FWD A/m^2



F106 LIGHTNING/83-013/M.THOMAS

TEST NO. 83-013

RUN NO. 14

S-014

B DOT L T/S

-200 -800 -400 0 400 800 1200

15:50:34.9978

329.4

329.6

329.8

330.0
330.2
MICROSECONDS

330.4

330.6

330.8

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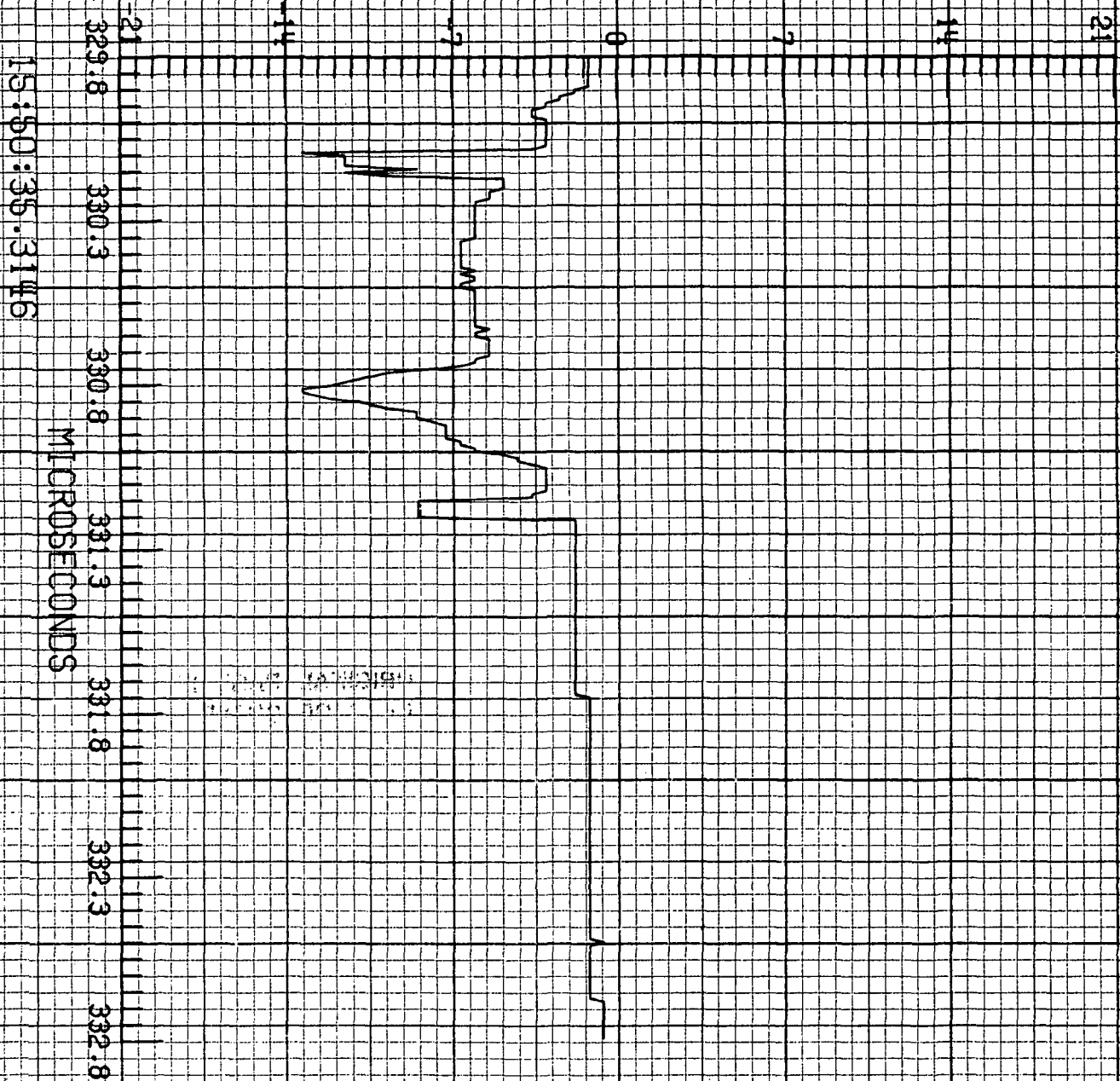
F106 LIGHTNING/83-013/M. THOMAS

TEST NO. 83-013

RUN NO. 14

S-014

D DOT FWD A/m^2



F106 LIGHTNING/TK-8/M. THOMAS

TEST NO. 83-015

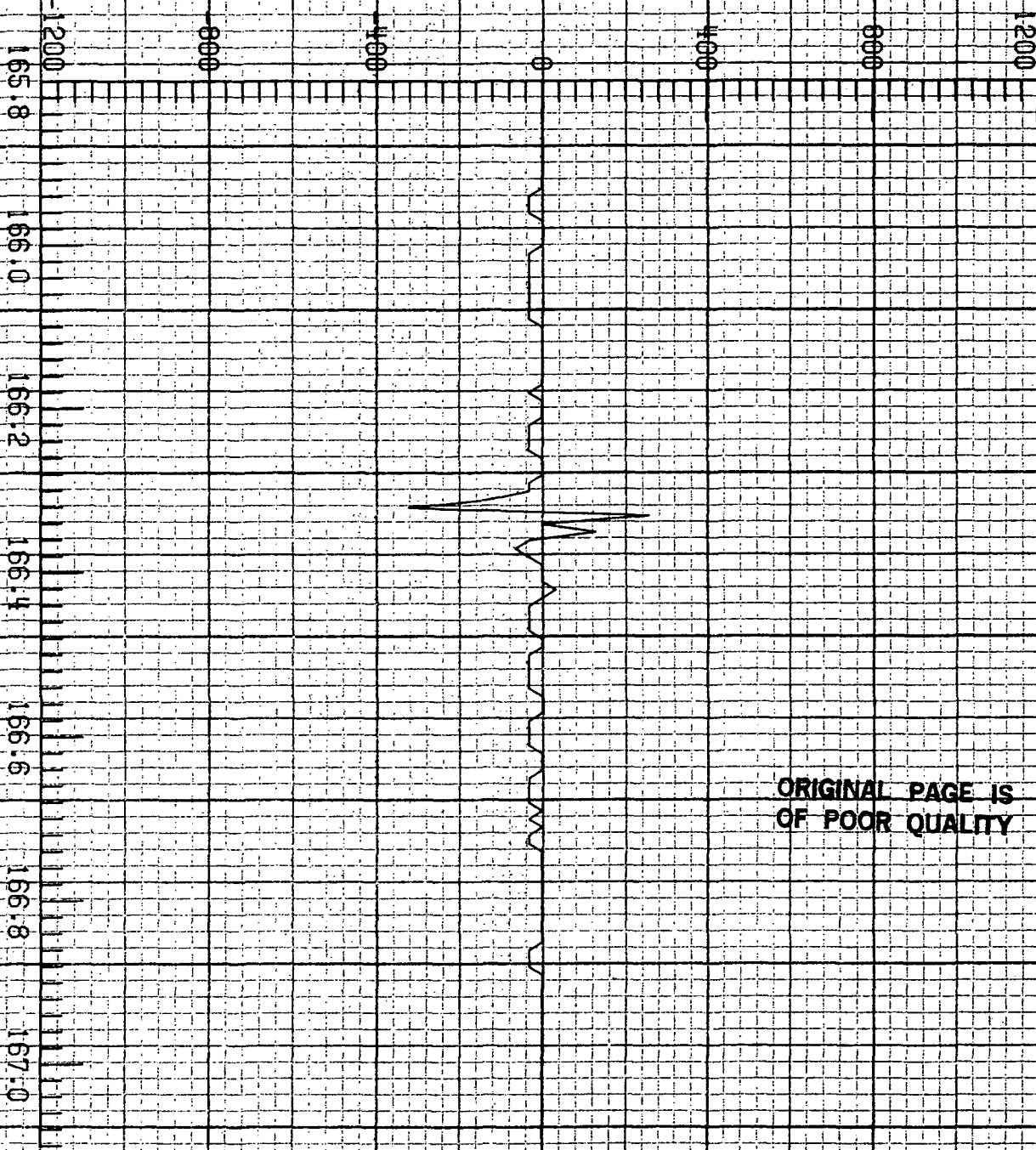
RUN NO. 1

S=001

B DOT L T/S

18:26:37.3896

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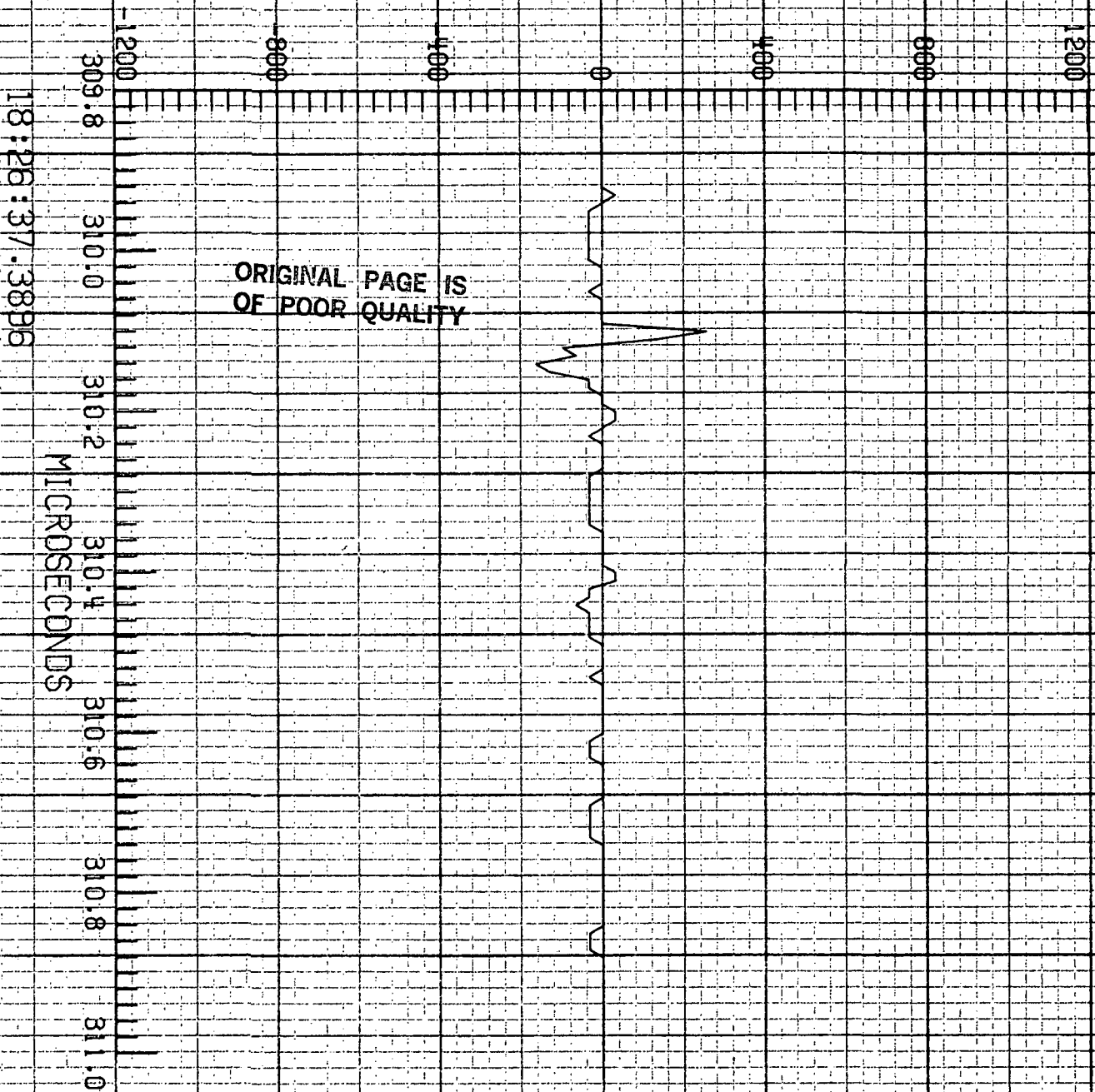
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TEST NO. 83-019

RUN NO. 1

S-001

B DOT II T/S



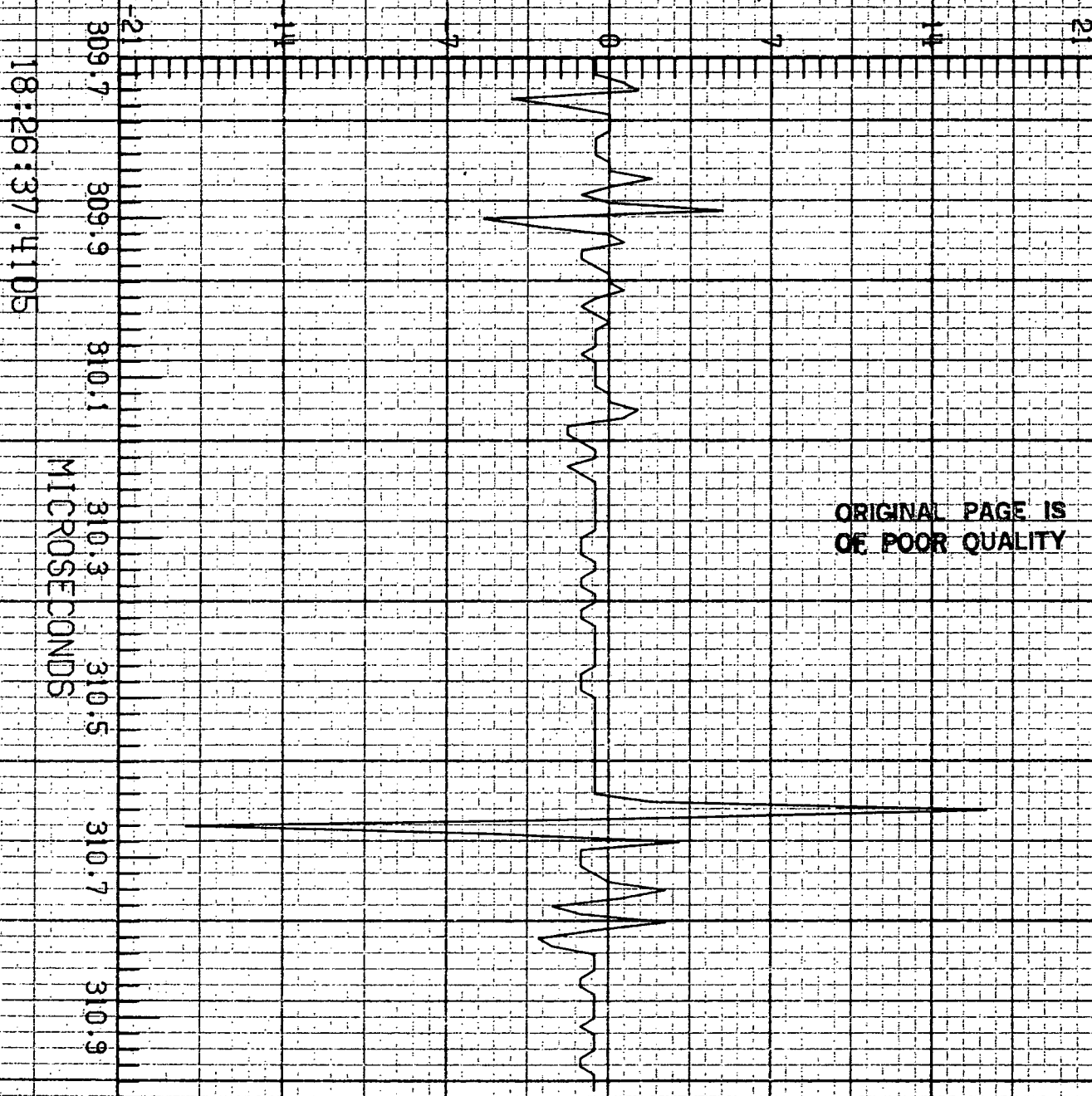
F106 LIGHTNING/TK-10/M. THOMAS

TEST NO. 83-01

RUN NO. 1

S-001

D DOT FWD A/m^2



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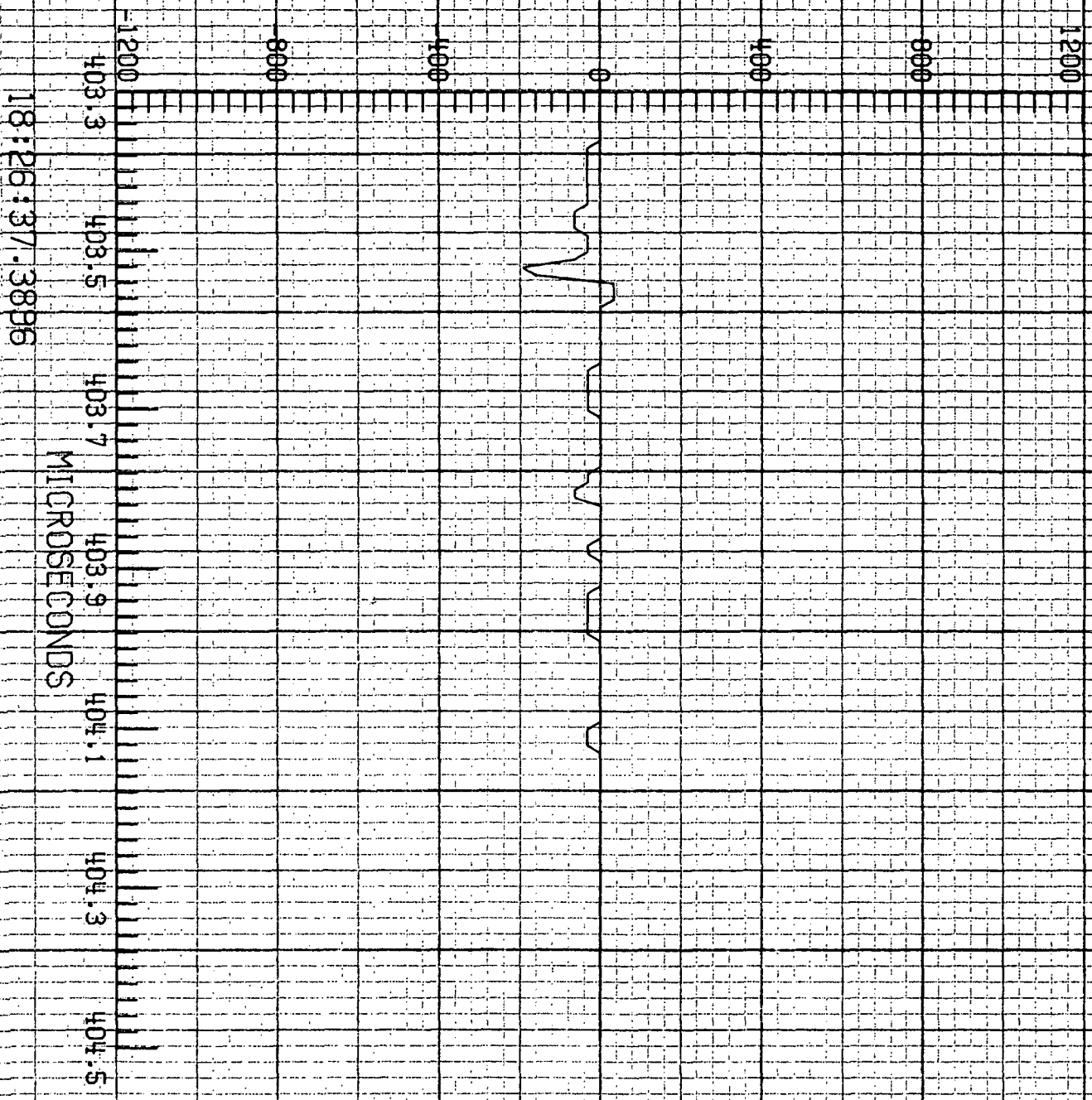
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TEST NO. 83-01

RUN NO. 1

S-001

B DOT L T/S



F106 LIGHTNING/TK-8/M.THOMAS

TEST NO. 83-01

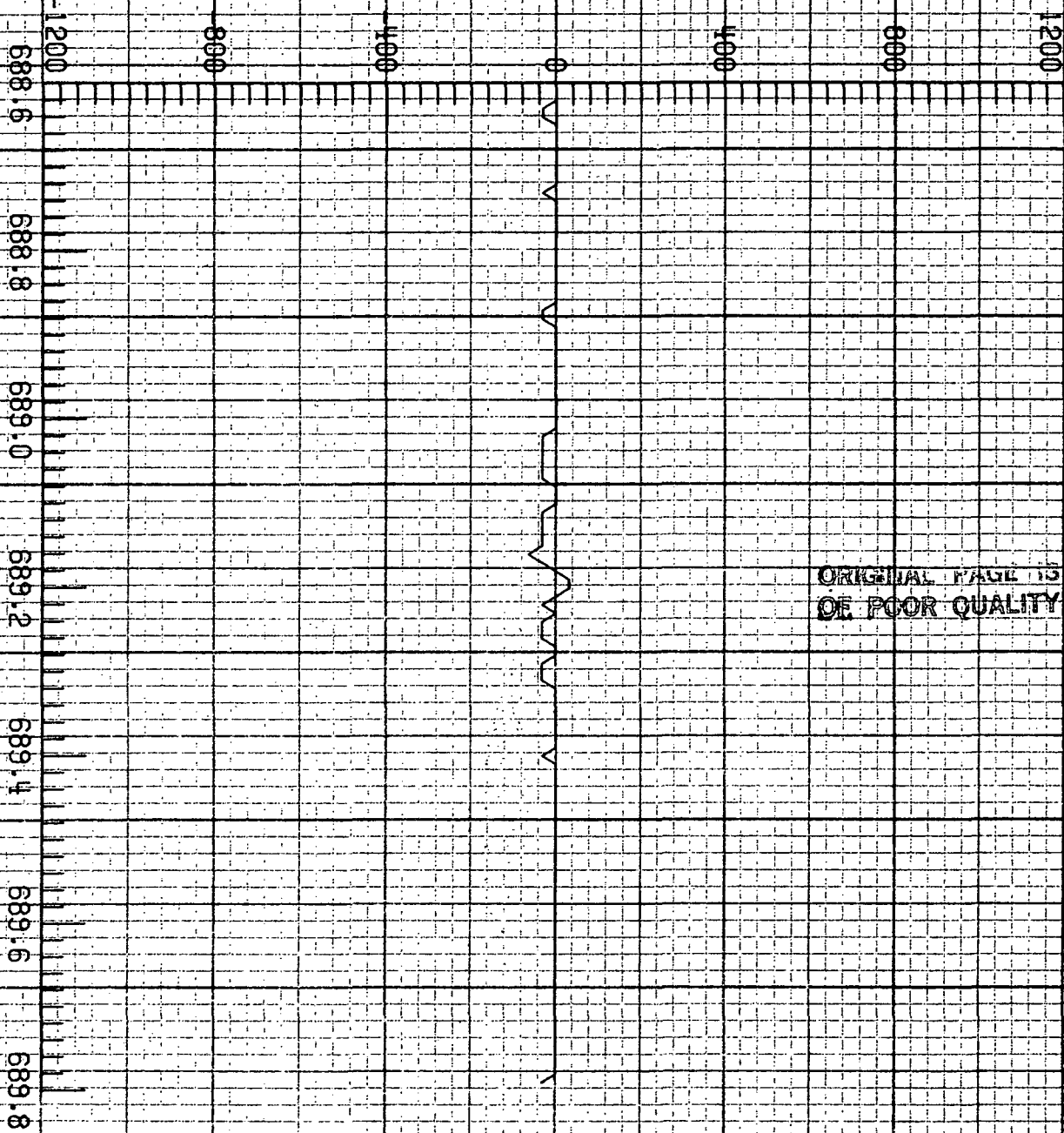
RUN NO. 1

S-001

B DOT L I/S

18:26:37.3896

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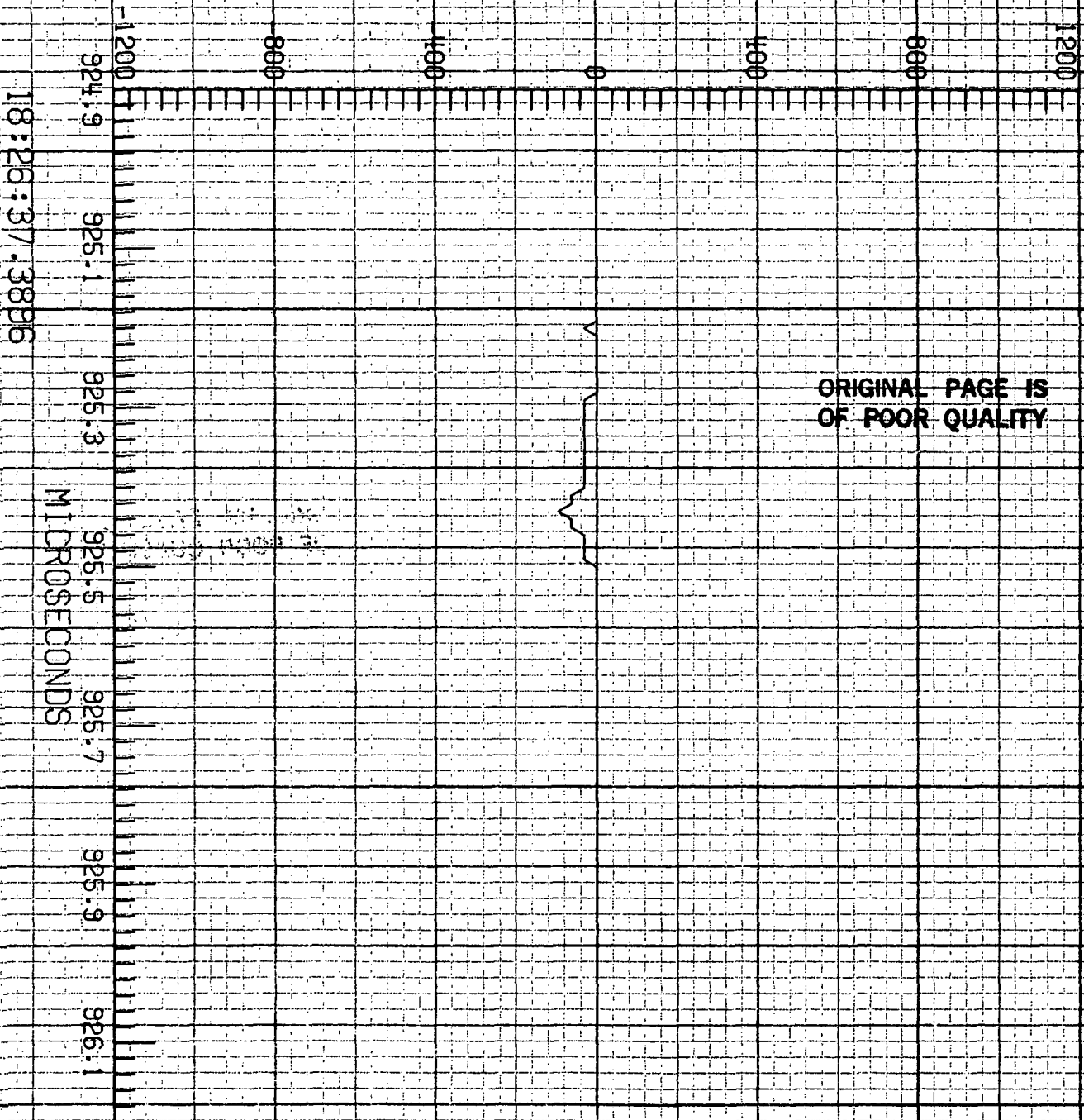
F106 LIGHTNING/TK-8/M.THOMAS

TEST NO. 83-01

RUN NO. 1

S-001

B DOT L T/S



F106 LIGHTNING/TK-8/M.THOMAS

TEST NO. 83-01

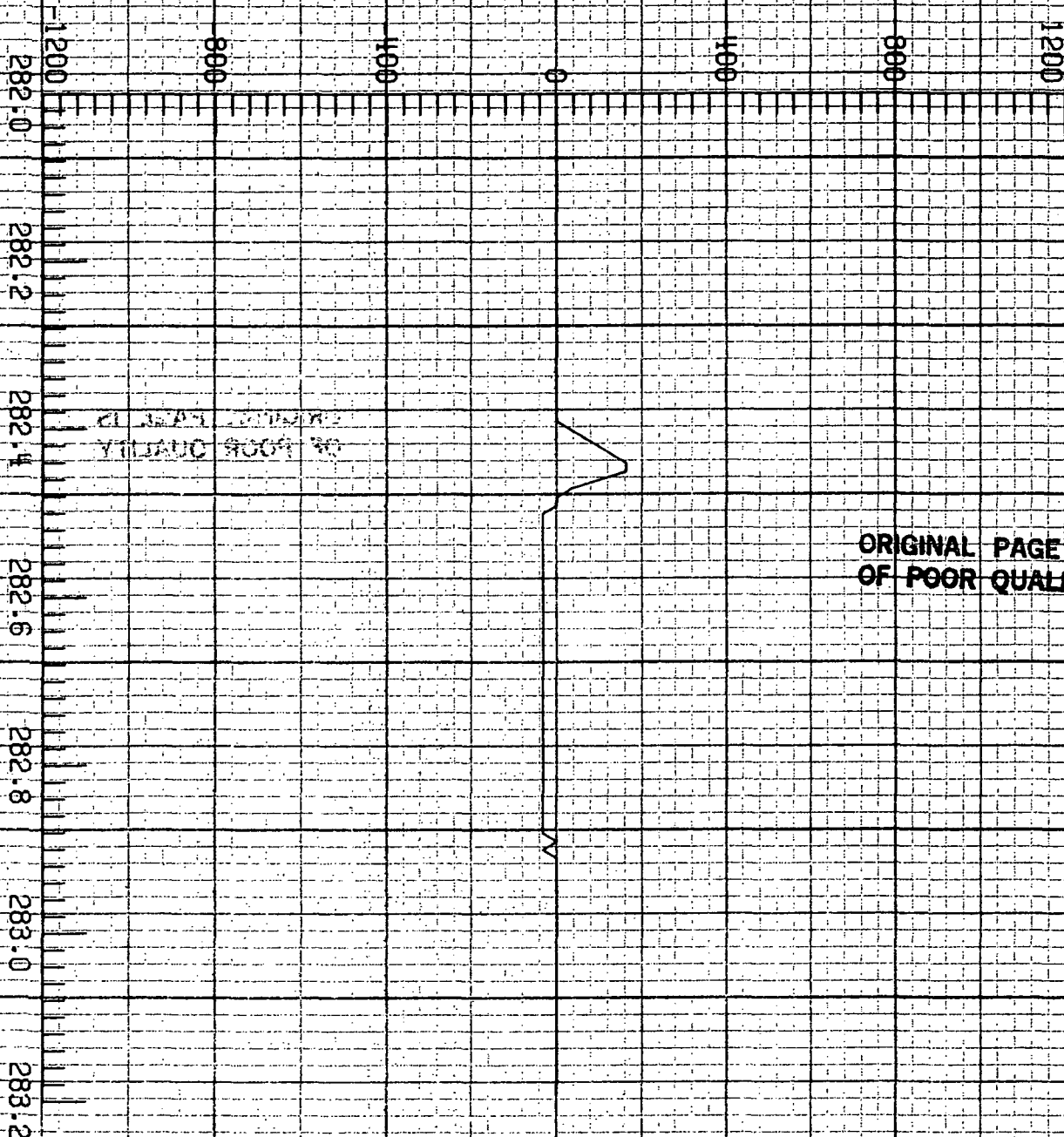
RUN NO. 2

S-002

B DOT L T/S

18:56:43.0708

MICROSECONDS



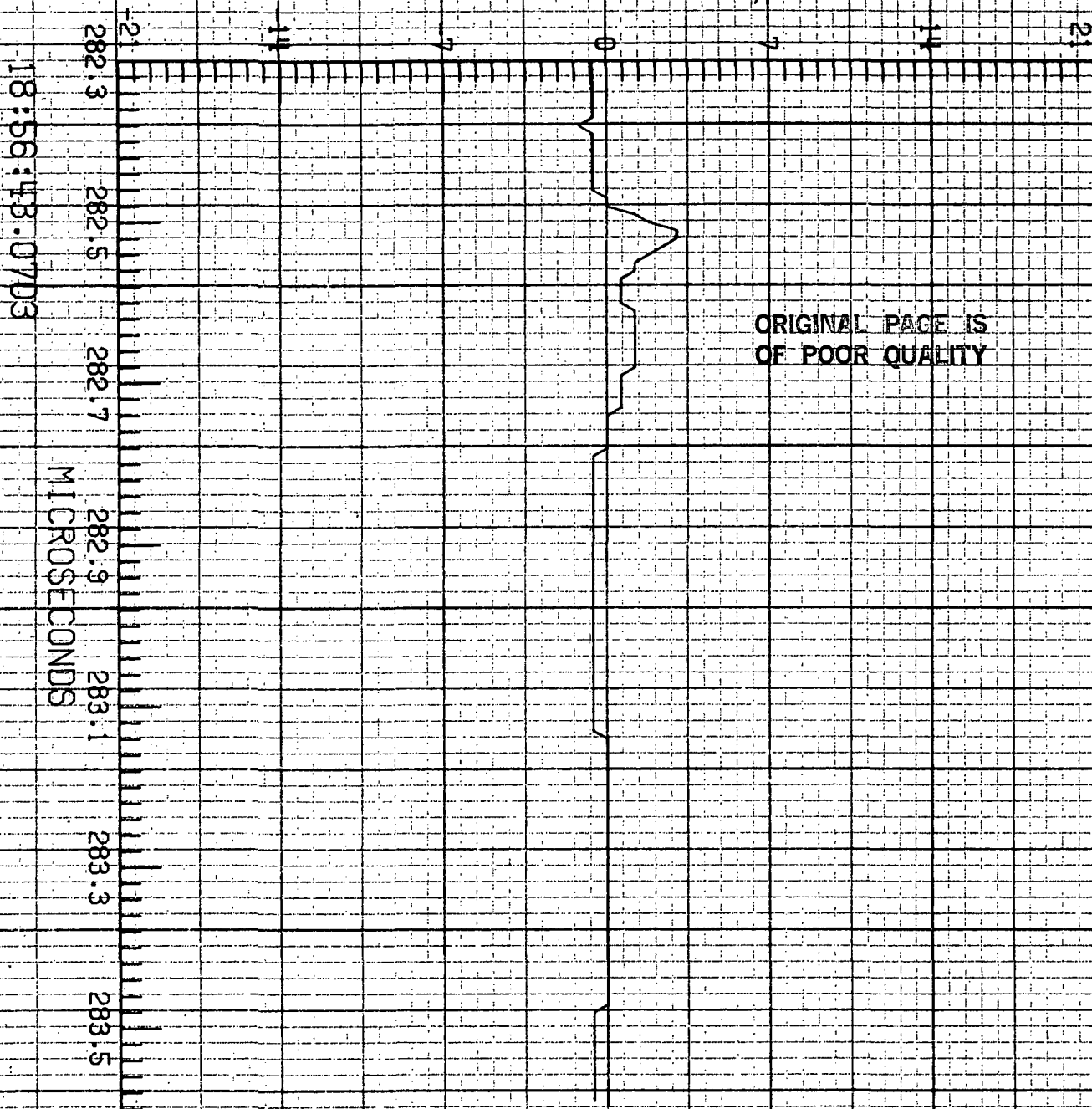
F106 LIGHTNING/TK-10/M.THOMAS

TEST NO. 83-01

RUN NO. 2

S-002

D DOT FWD A/m^2



F106 LIGHTNING/TK-8/M. THOMAS

TEST NO. 83-01

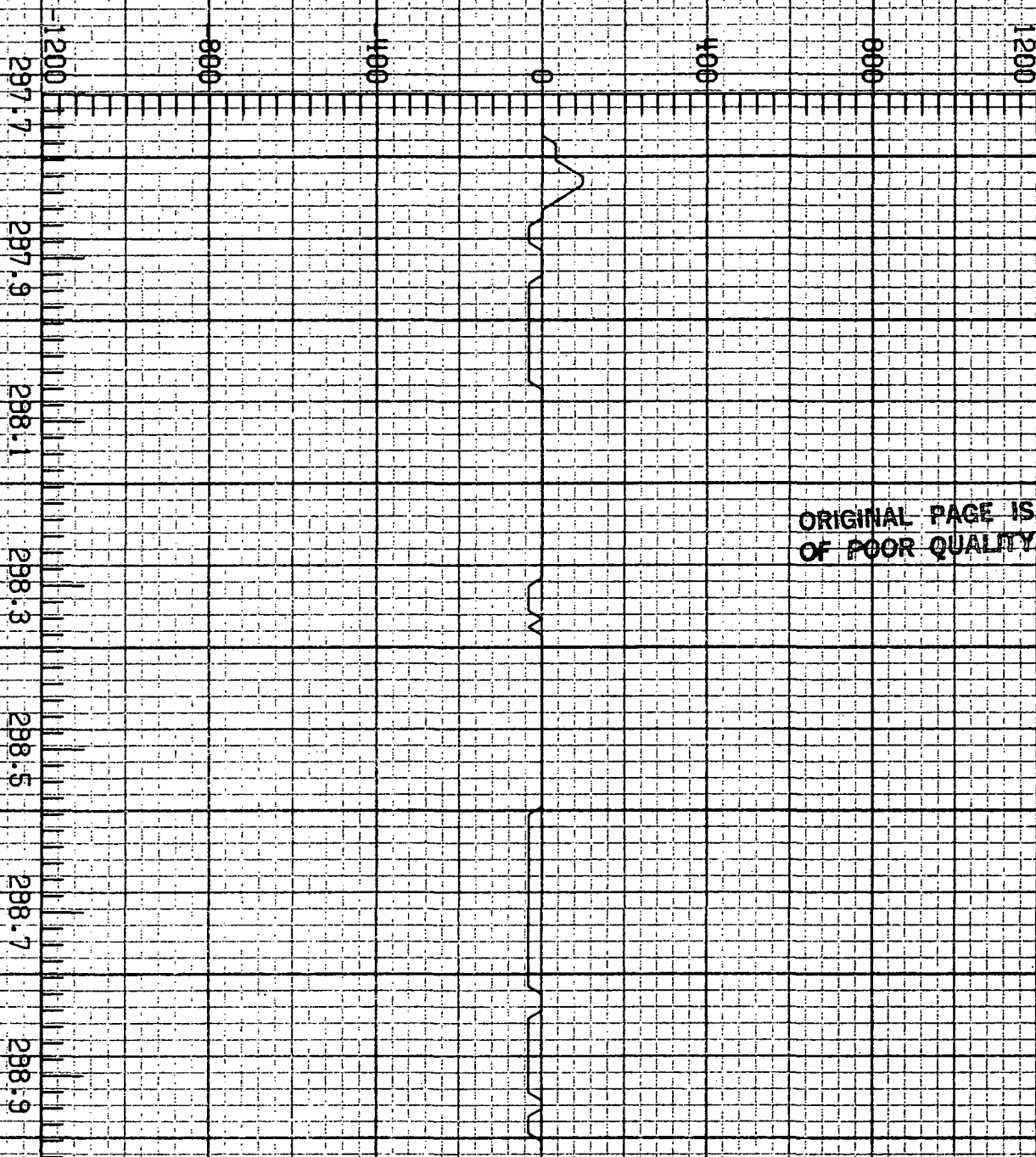
RUN NO. 2

S-002

B DOT L T/S

18:56:43.0708

MICROSECONDS



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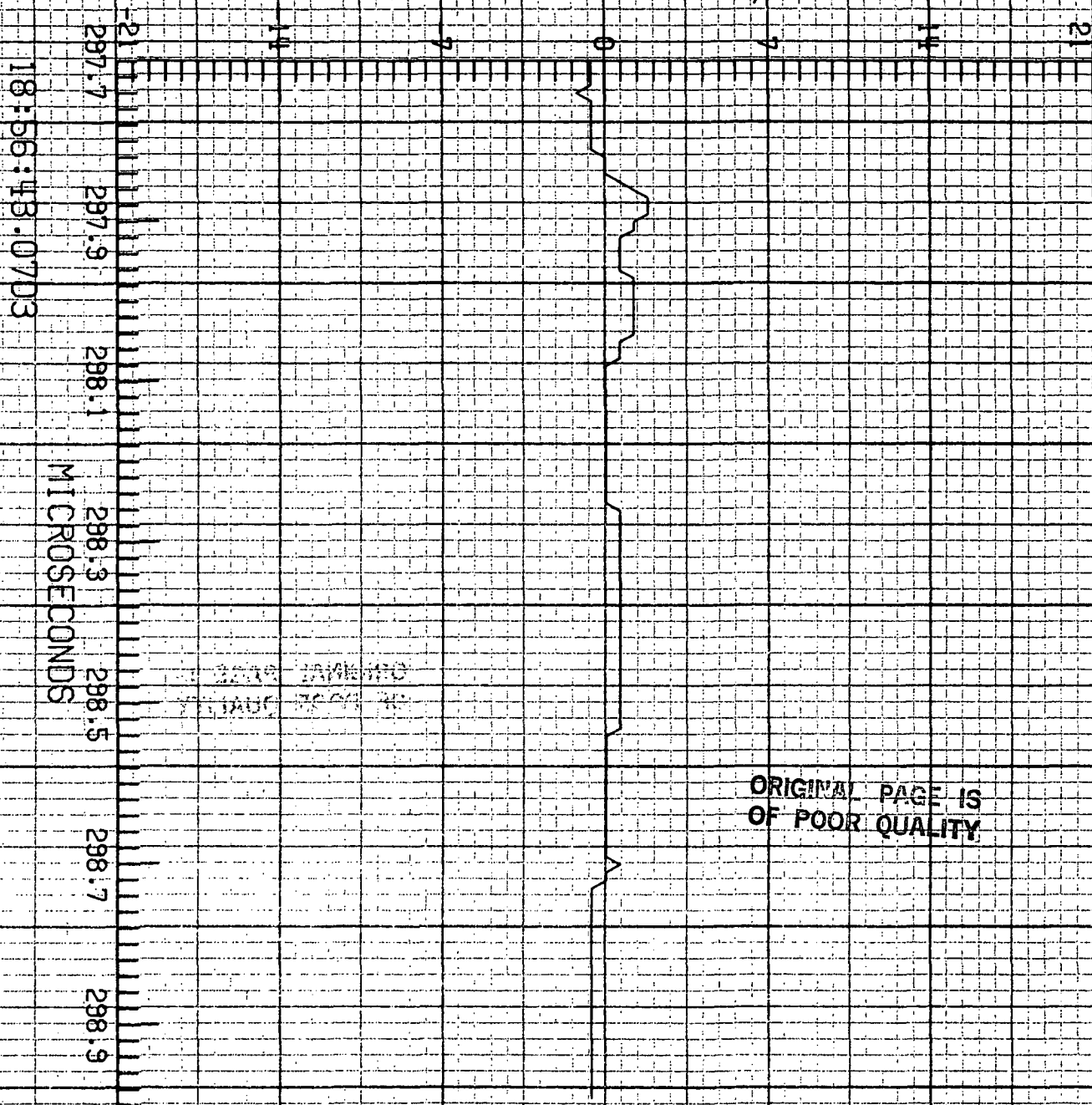
F106 LIGHTNING/TK-10/M. THOMAS

TEST NO. 83-013

RUN NO. 2

S-002

D DOT FWD A/m^2



106 LIGHTNING/TK-8/M.THOMAS

TEST NO. 83-019

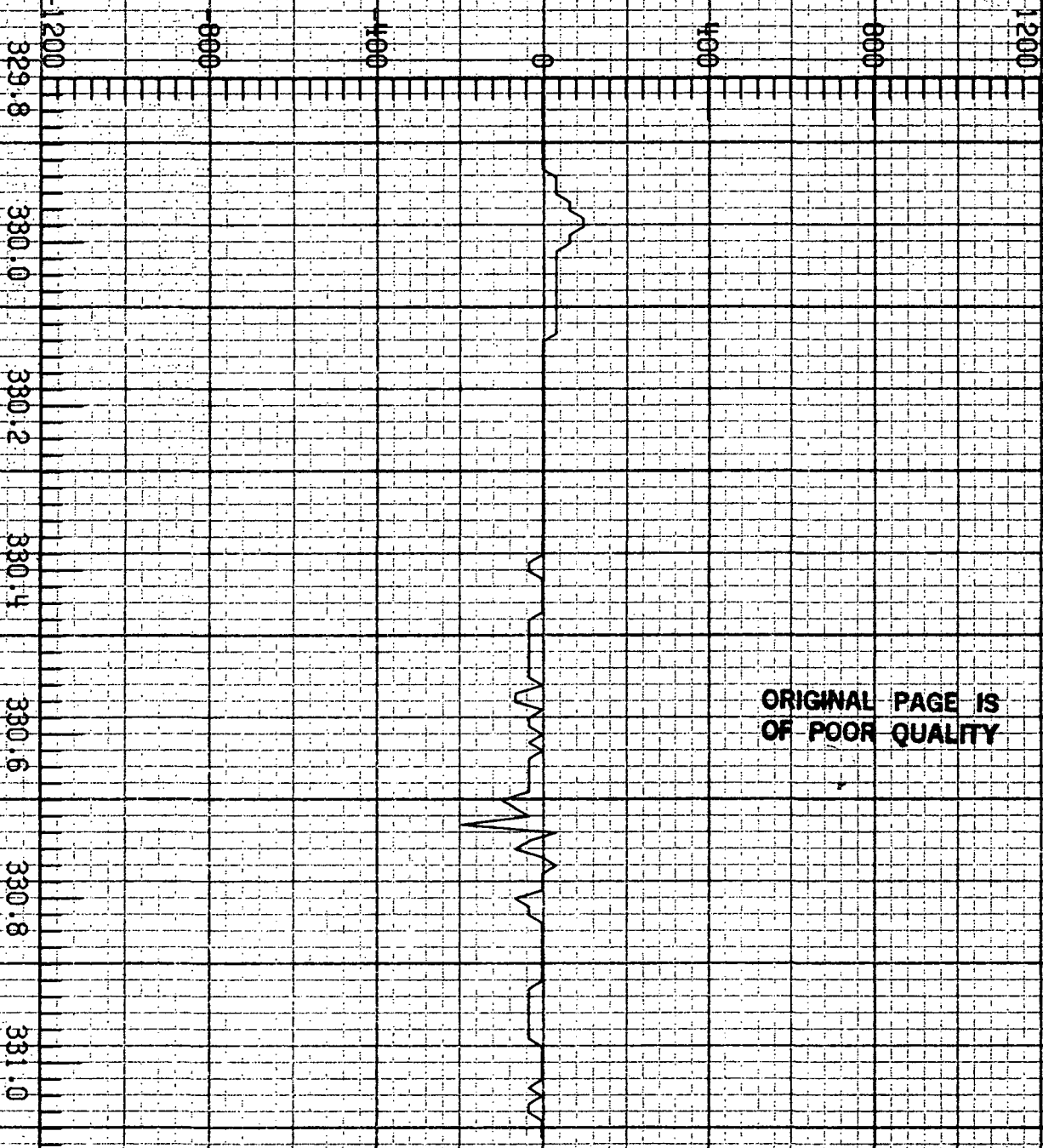
RUN NO. 2

S-002

B DOT L T/S

18:56:43.0/08

MICROSECONDS



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F106 LIGHTNING/TK-10/M.THOMAS

TEST NO. 83-019

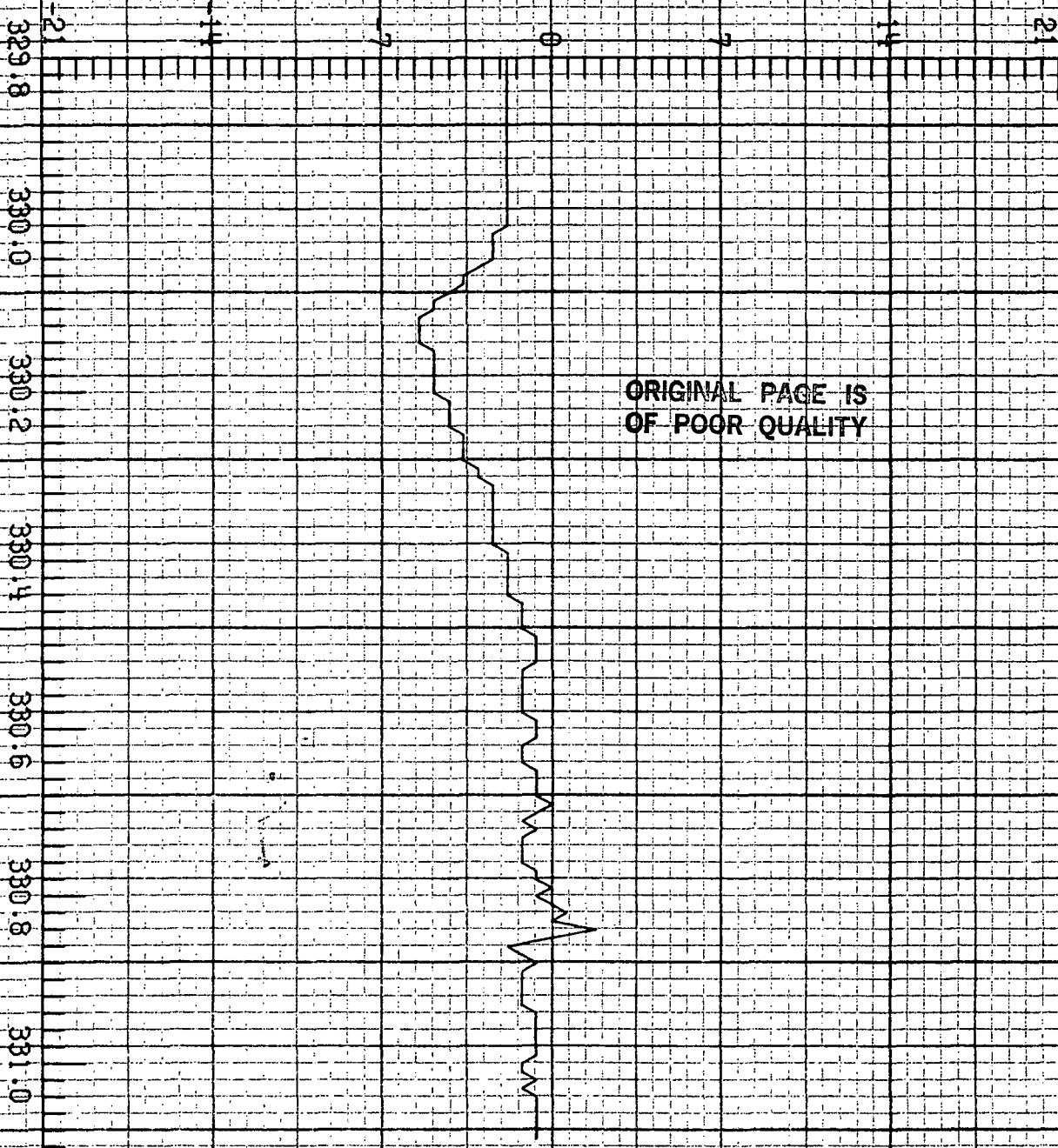
RUN NO. 2

S-002

D DOT FWD A/m^2

18:55:43.0703

MICROSECONDS



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106 LIGHTNING/TK-8/M.THOMAS

TEST NO. 83-015

RUN NO. 2

S-002

B DOT 1 T/S

18:56:48.0708

MICROSECONDS

358.0
358.2
358.4
358.6
358.8
359.0
359.2

1200
800
400
0
400
800
1200

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106 LIGHTNING/TK-10/M. THOMAS

TEST NO. 83-015

RUN NO. 2

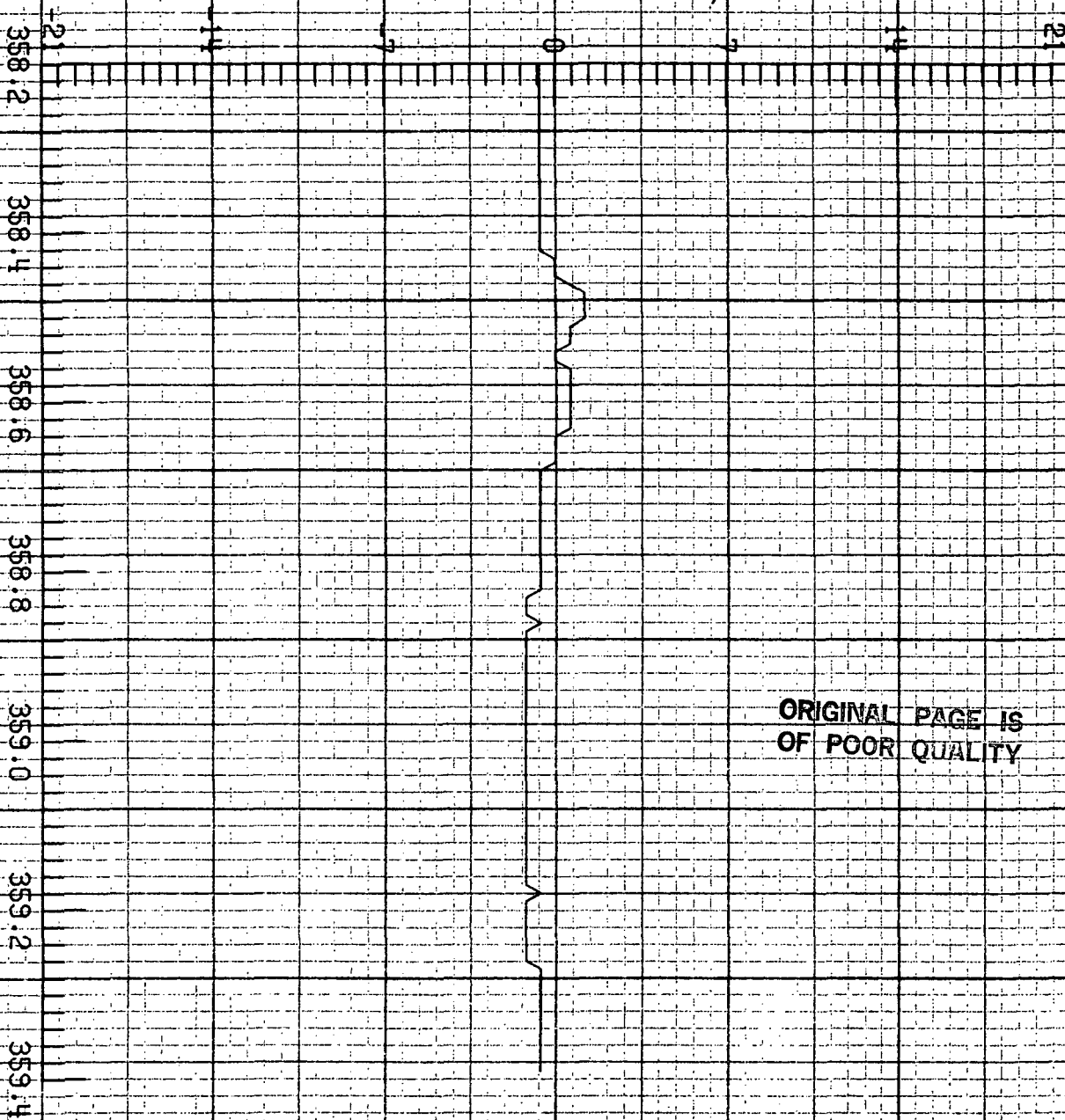
S-002

D DOT FWD

A/m²

18:56:43.0703

MICROSECONDS



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F106 LIGHTNING/TK-8/M. THOMAS

TEST NO. 83-019

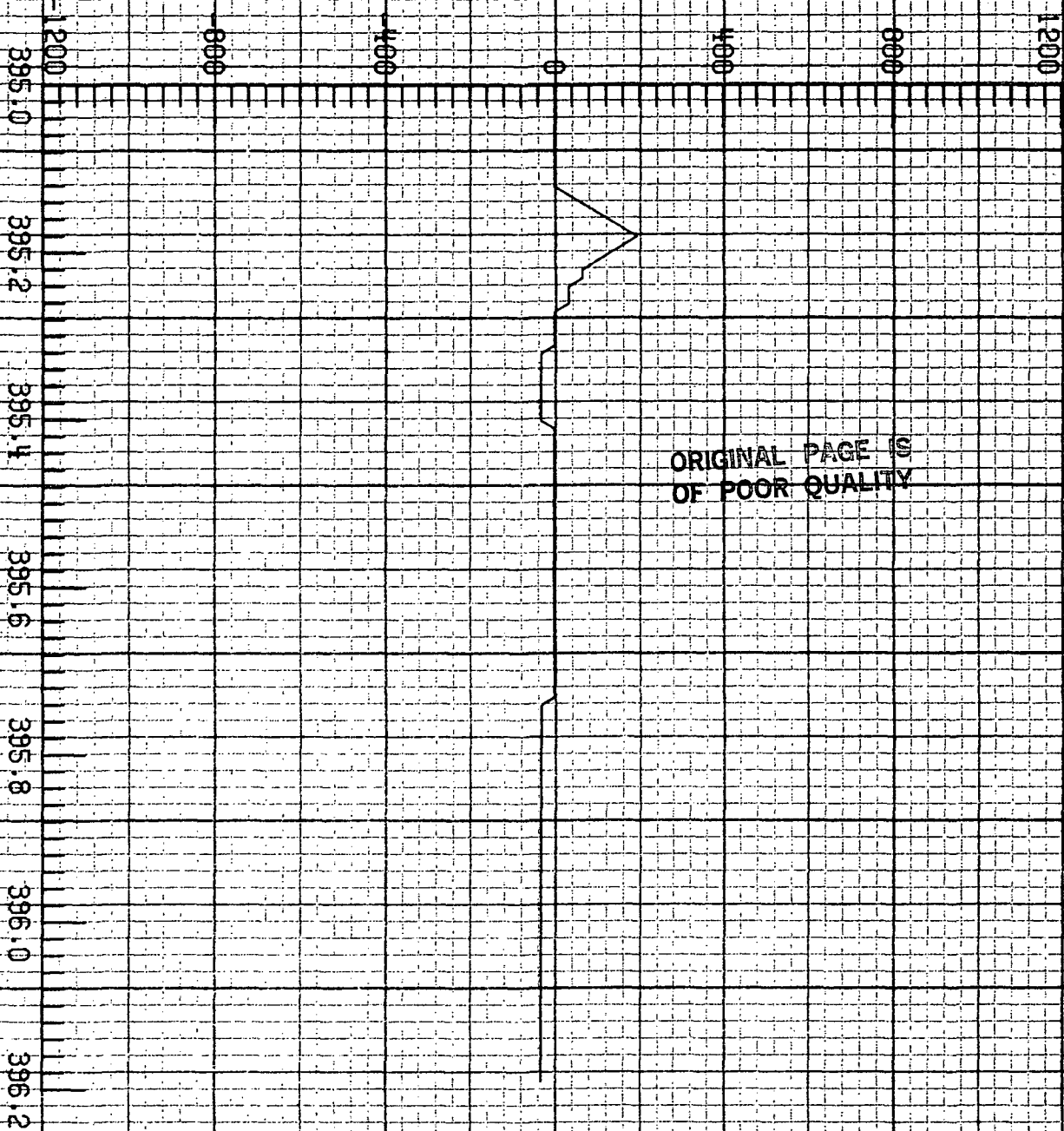
RUN NO. 2

S-002

B DOT L T/S

18:56:13.0708

MICROSECONDS



F106 LIGHTNING/TK-10/M.THOMAS

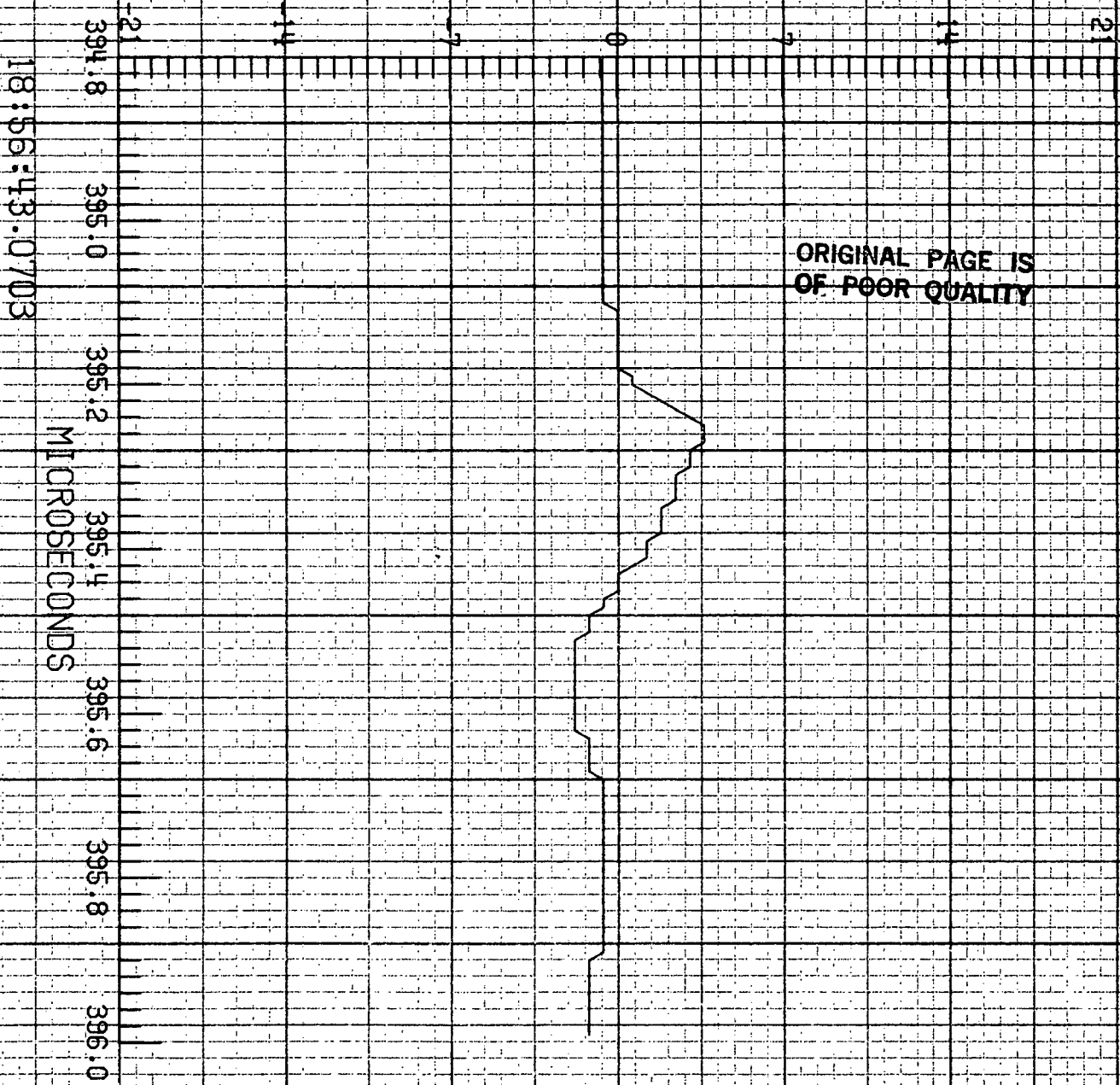
TEST NO. 83-015

RUN NO. 2

S-002

D DOT FWD

A/m²



F106 LIGHTNING/TK-10/M. THOMAS

TEST NO. 83-016

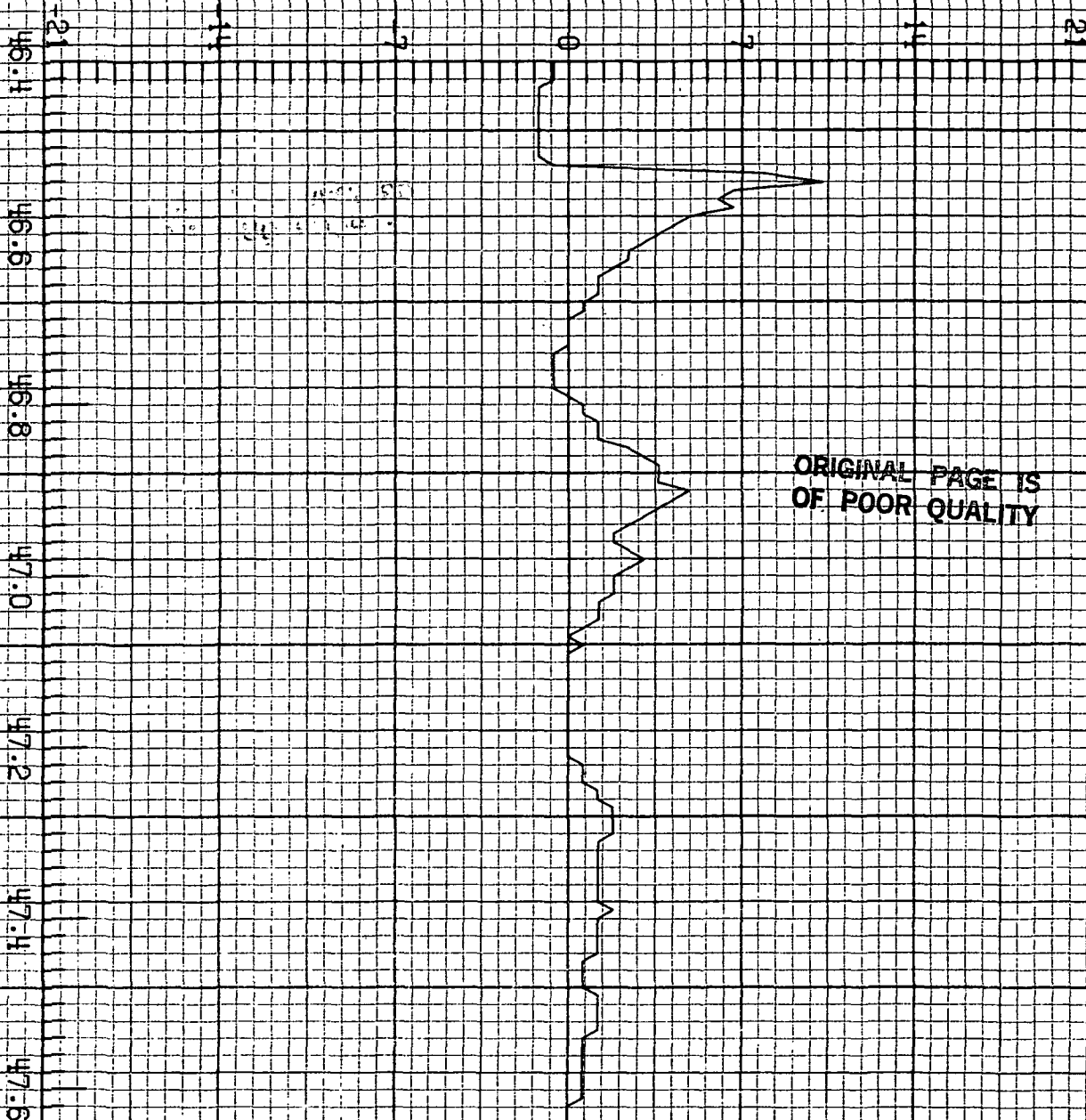
RUN NO. 1

N=001

D DOT FWD A/m²

21:35:34.900H

MICROSECONDS



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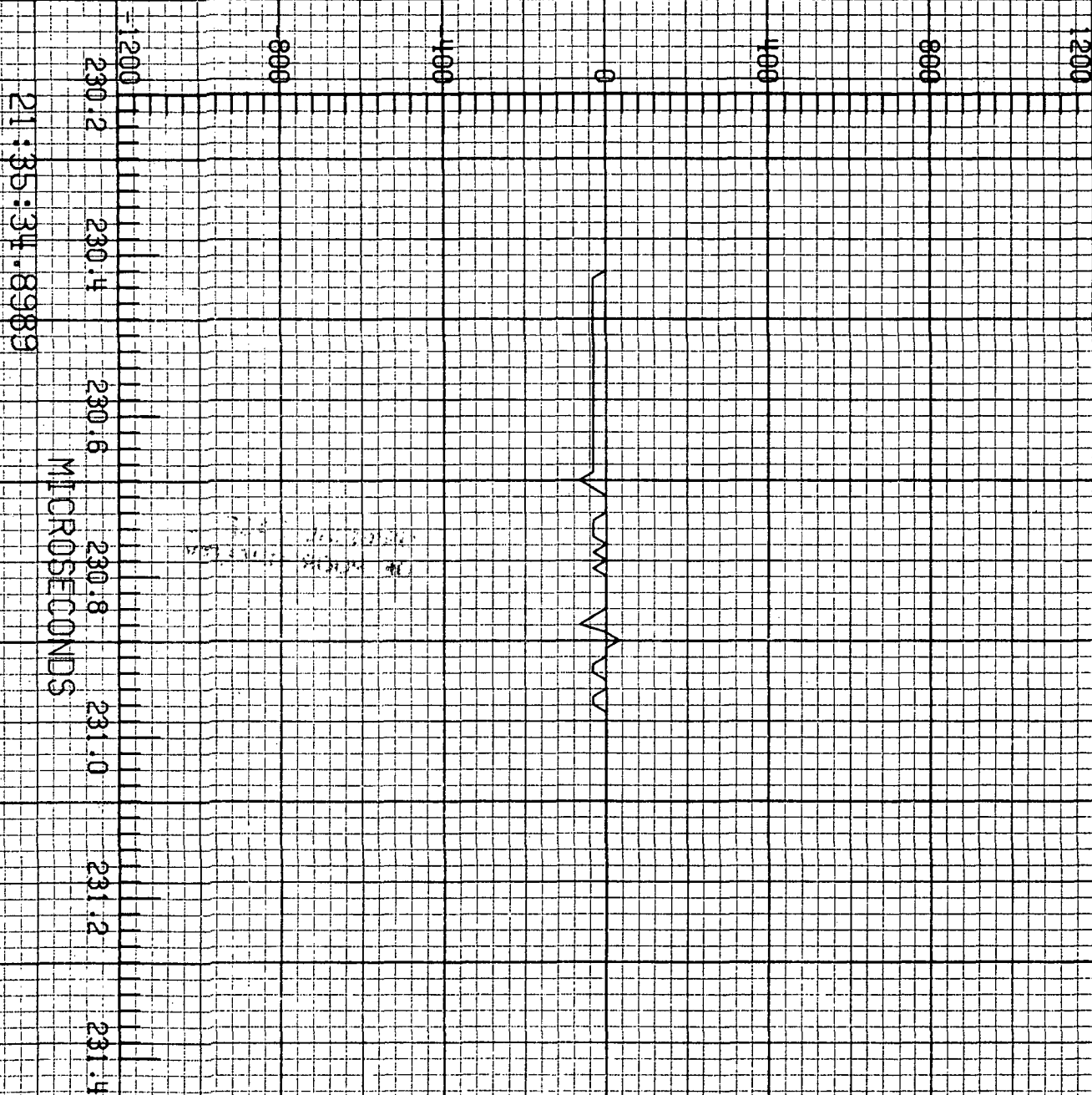
F106 LIGHTNING/TK-8/M. THOMAS

TEST NO. 83-016

RUN NO. 1

N-001

B DOT L I/S



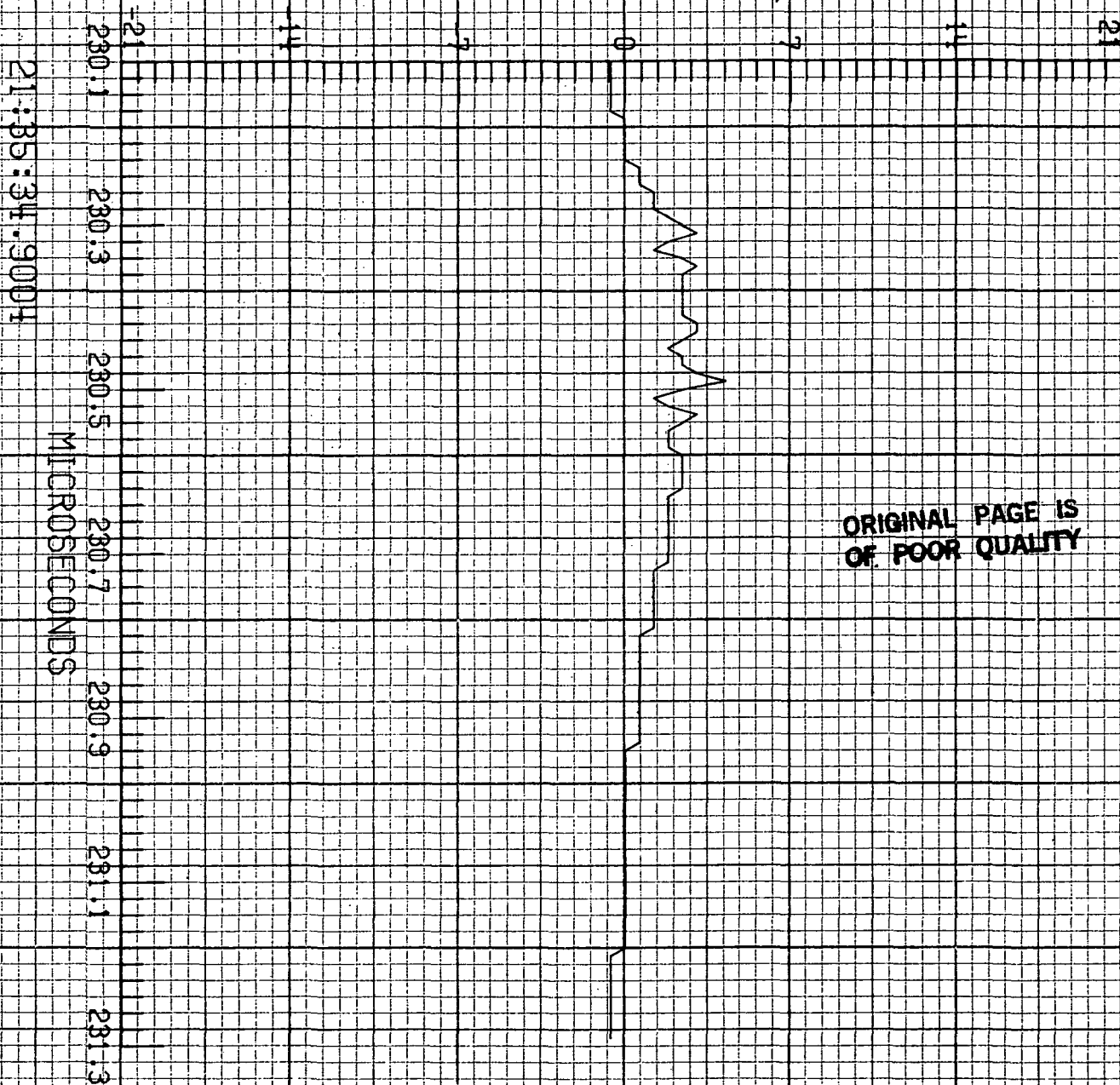
F106 LIGHTNING/TK-10/M. THOMAS

TEST NO. 83-011

RUN NO. 1

N-001

D DOT FWD A/m^2



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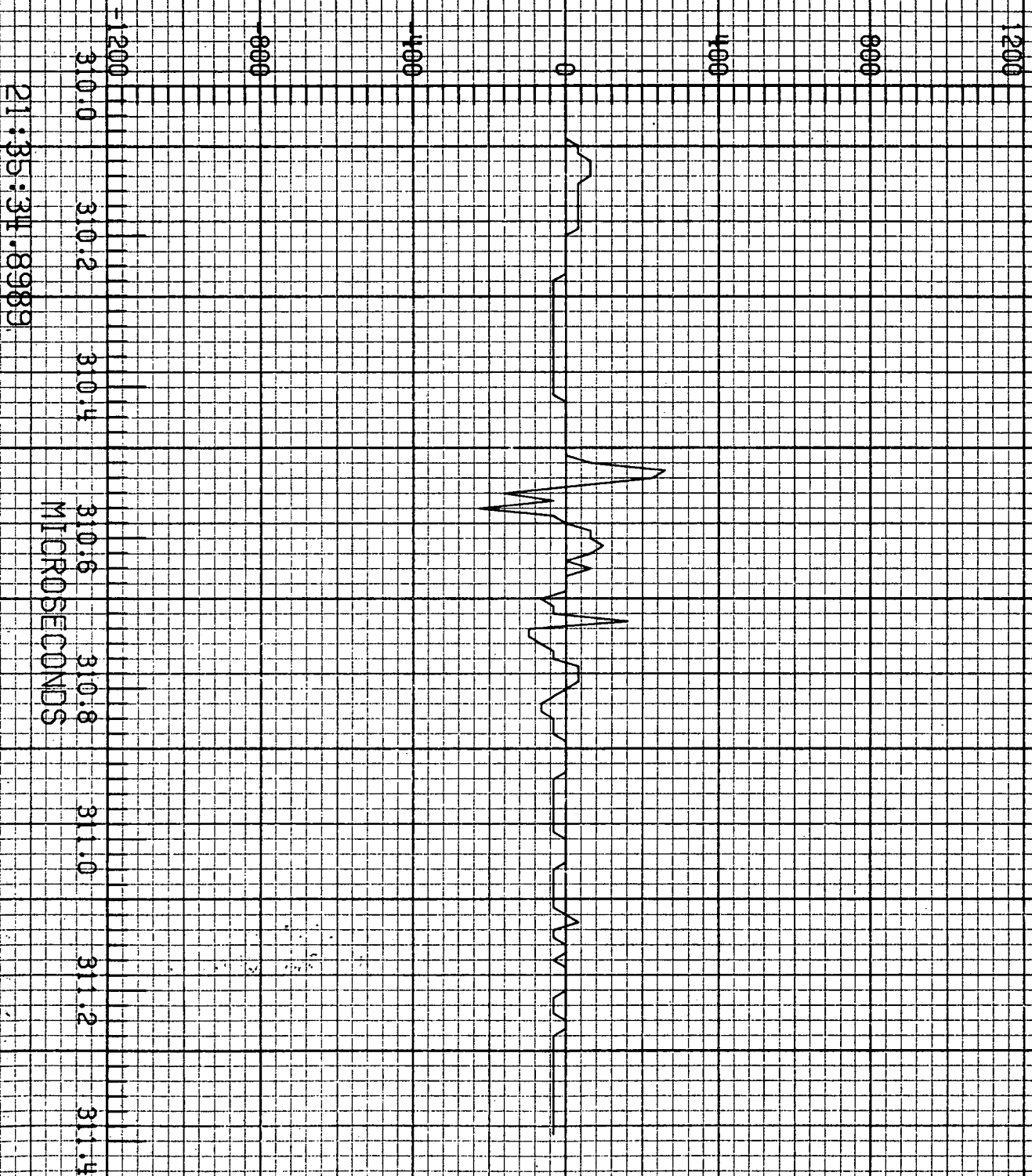
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TEST NO. 83-01

RUN NO. 1

N-001

B DOT L T/S



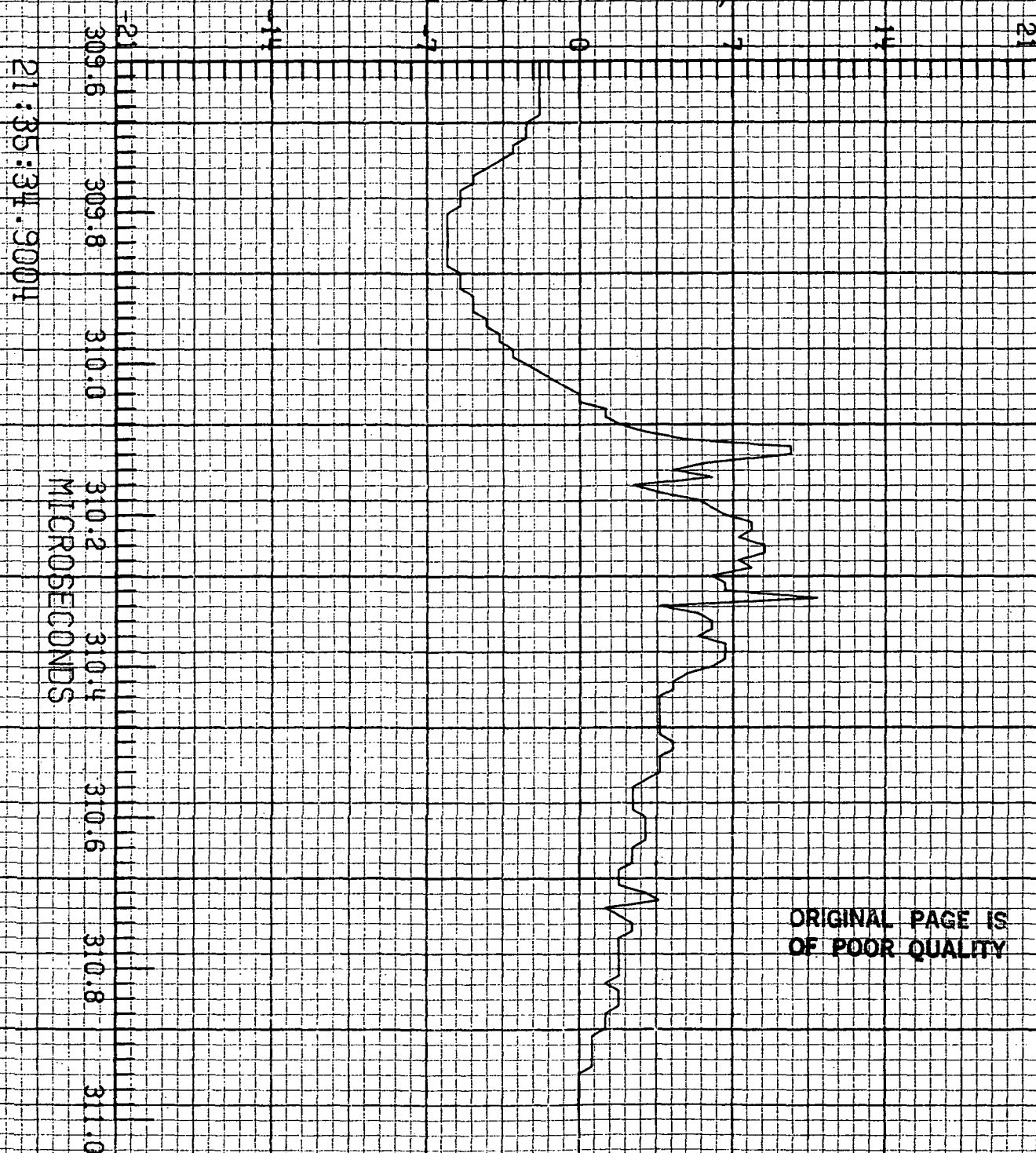
F106 LIGHTNING/TK-10/M. THOMAS

TEST NO. 83-01

RUN NO. 1

N=001

D DOT FWD A/m²



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F106 LIGHTNING/TK-8/M. THOMAS

TEST NO. 83-016

RUN NO. 1

N-001

B DOT L T/S



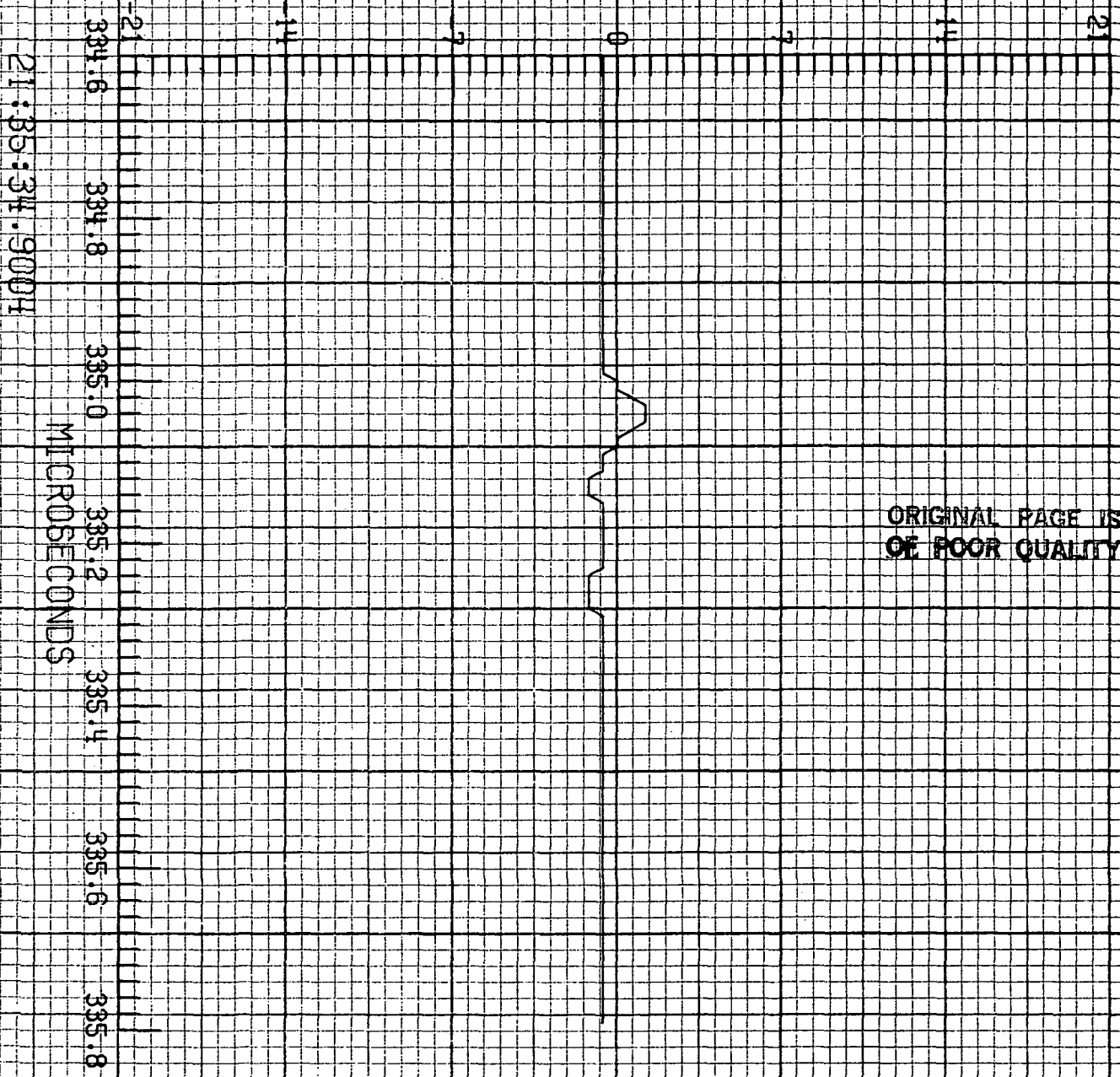
F106 LIGHTNING/TK-10/M. THOMAS

TEST NO. 83-01

RUN NO. 1

N-001

D DOT FWD A/m^2



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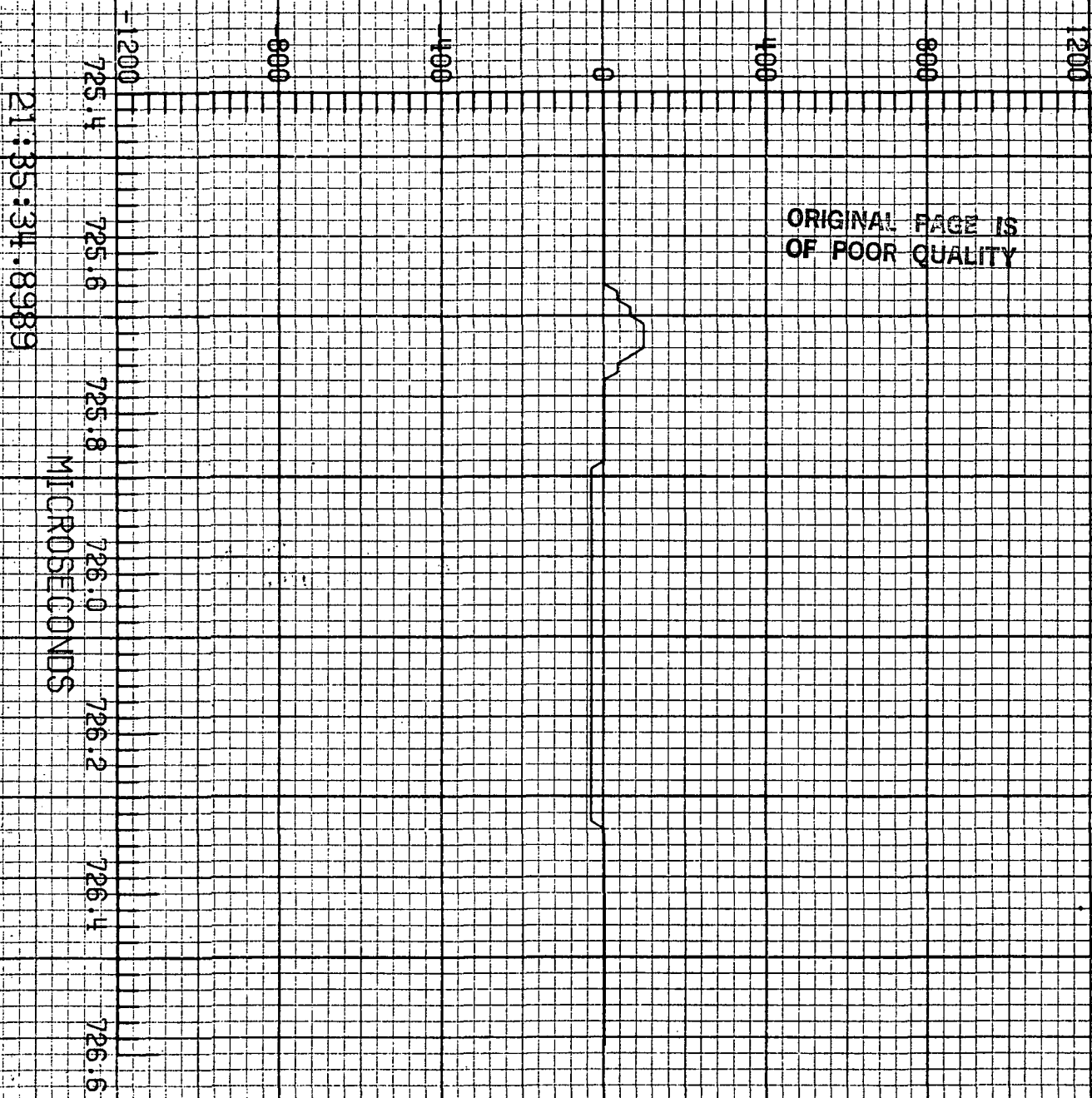
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TEST NO. 83-01

RUN NO. 1

N-001

B DOT L T/S



21:35:34.8989

MICROSECONDS

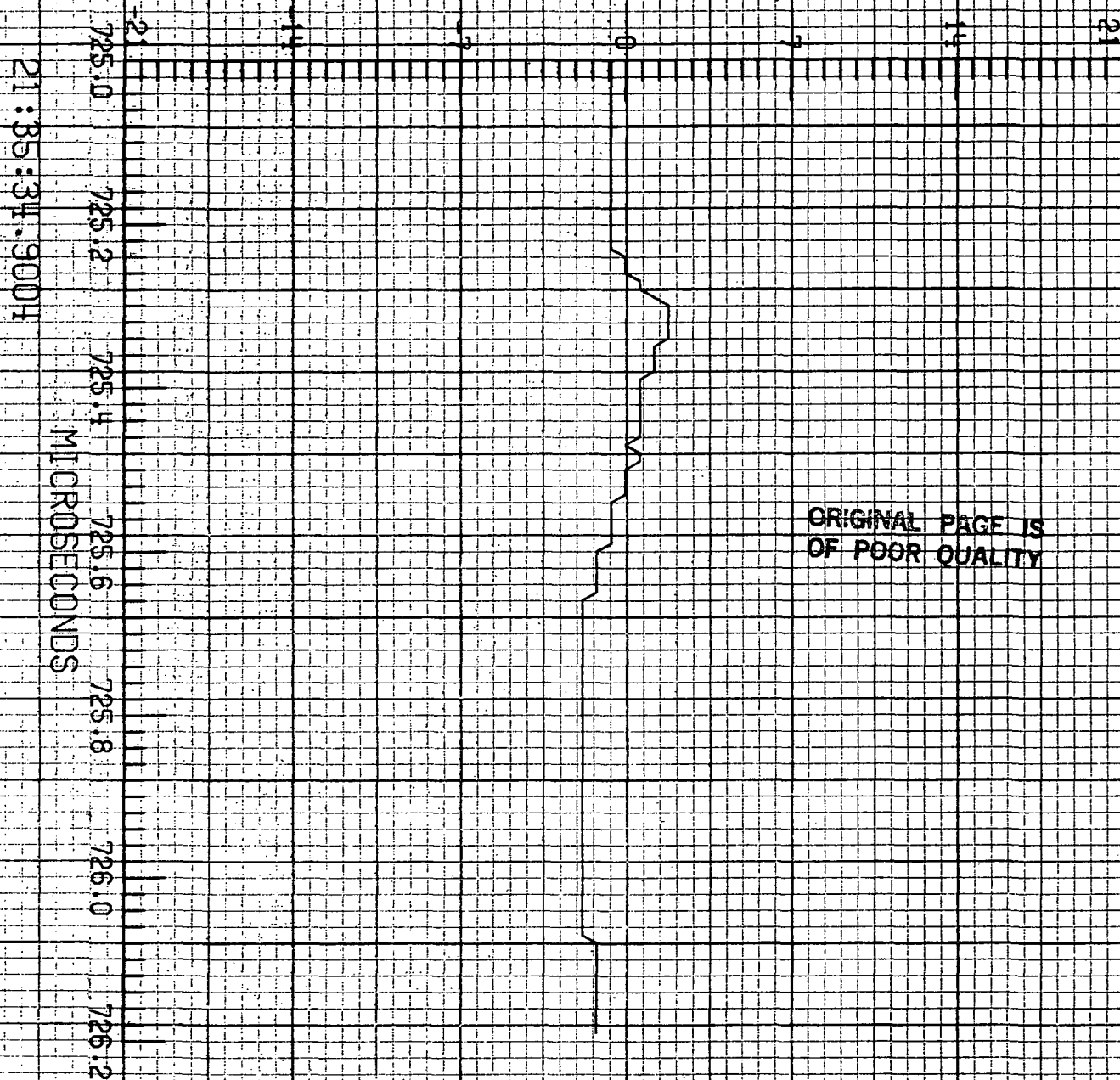
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TEST NO. 83-01

RUN NO. 1

N=001

D DOT FWD A/m^2



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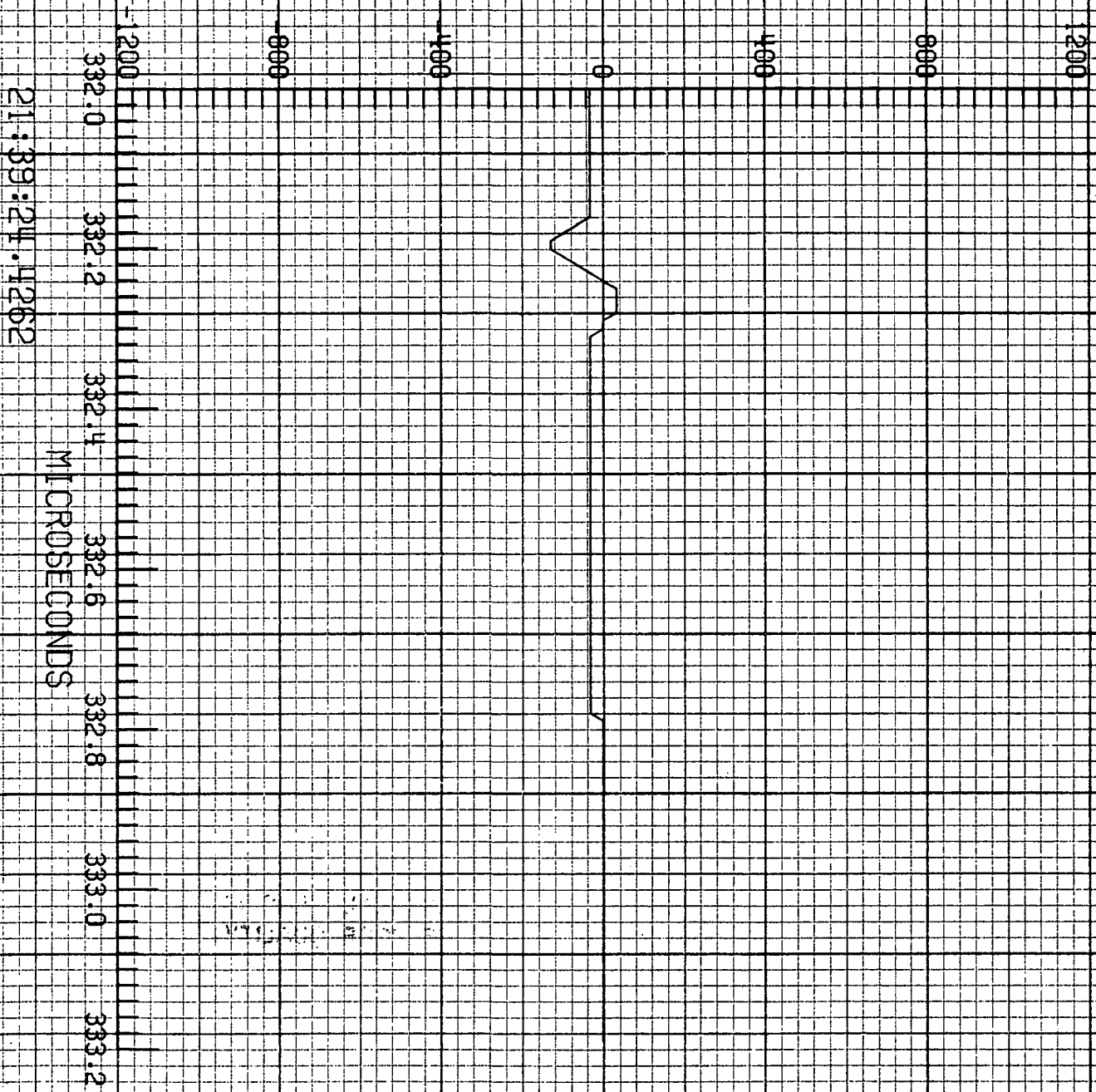
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TEST NO. 83-011

RUN NO. 2

N-002

B DOT I T/S



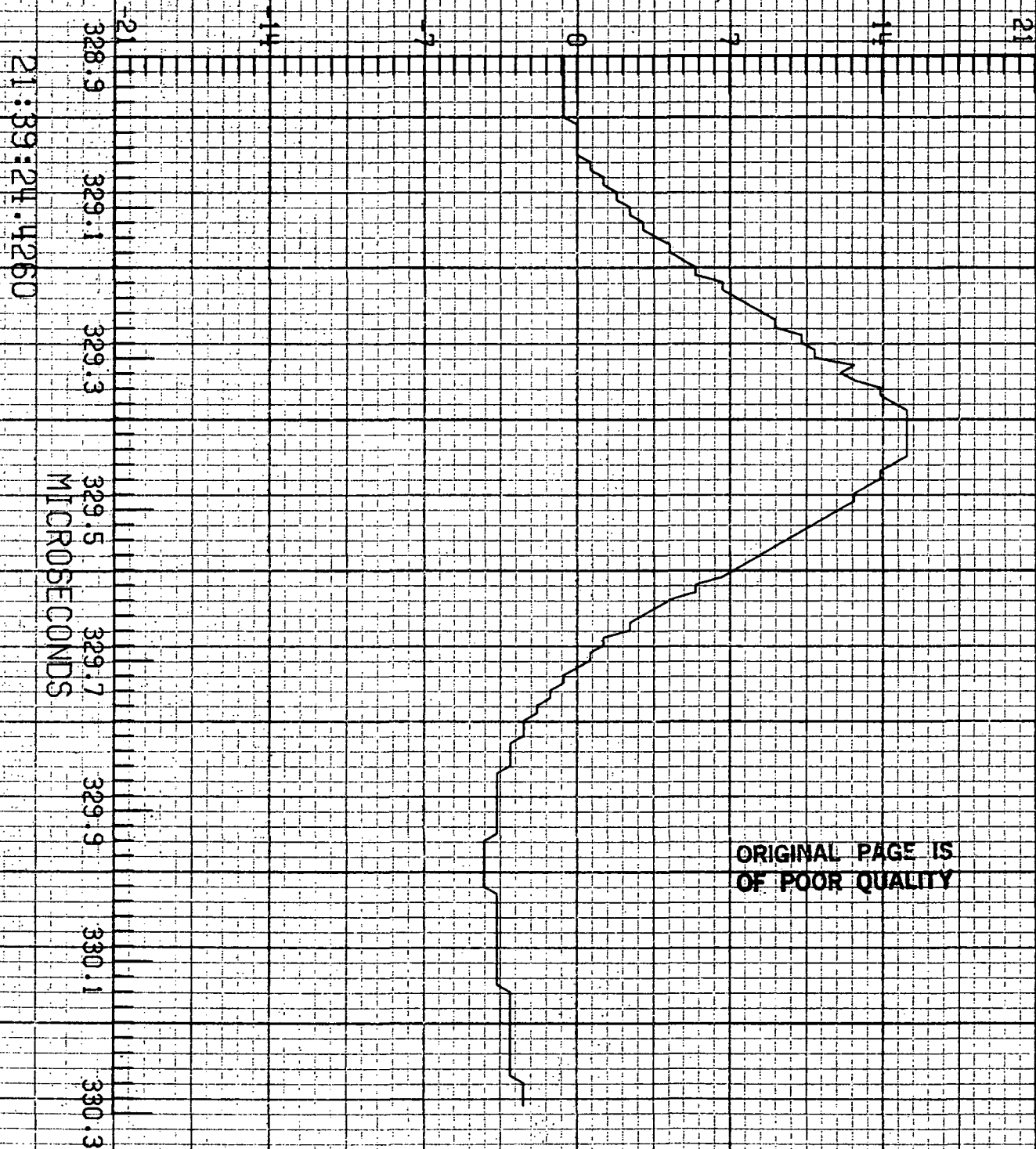
F106 LIGHTNING/TK-10/M. THOMAS

TEST NO. 83-016

RUN NO. 2

N=002

D DOT FWD A/m²

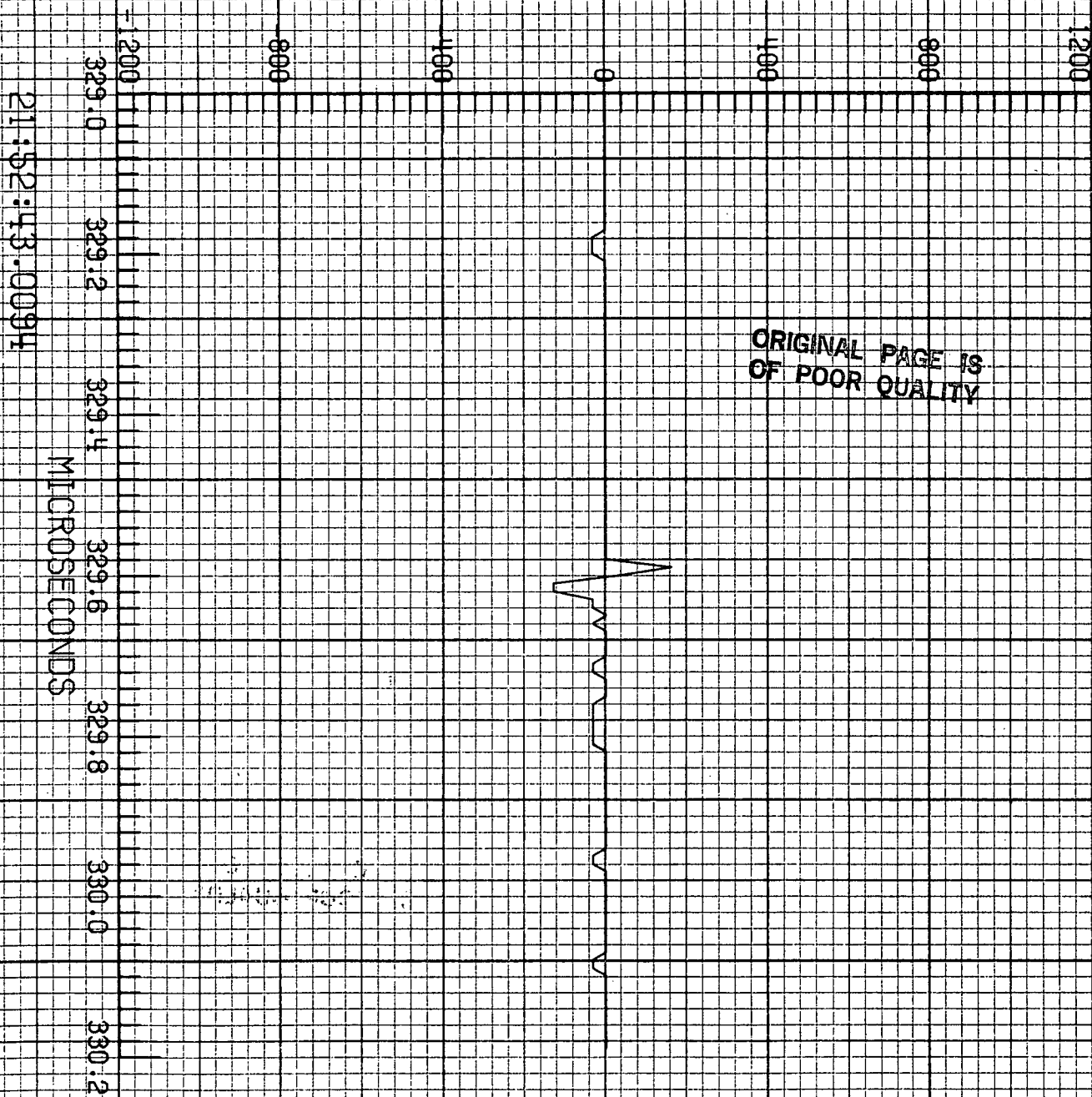


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F106 LIGHTNING/TK-8/M.THOMAS
RUN NO. 3 N-003

TEST NO. 83-016

B DOT L T/S



F106 LIGHTNING/TK-8/M.THOMAS

TEST NO. 83-01

RUN NO. #

N-004

B DOT L T/S

-1200 -800 -400 0 400 800 1200

329.8

330.0

330.2

330.4

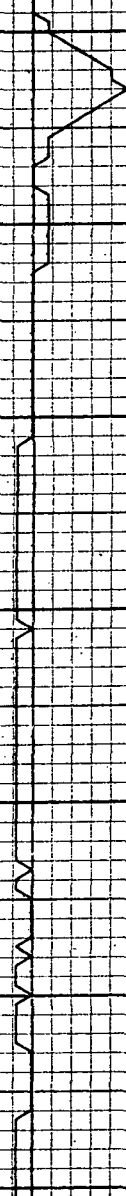
330.6

330.8

331.0

21:52:52.4232

MICROSECONDS



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F106 LIGHTNING/TK-10/M. THOMAS

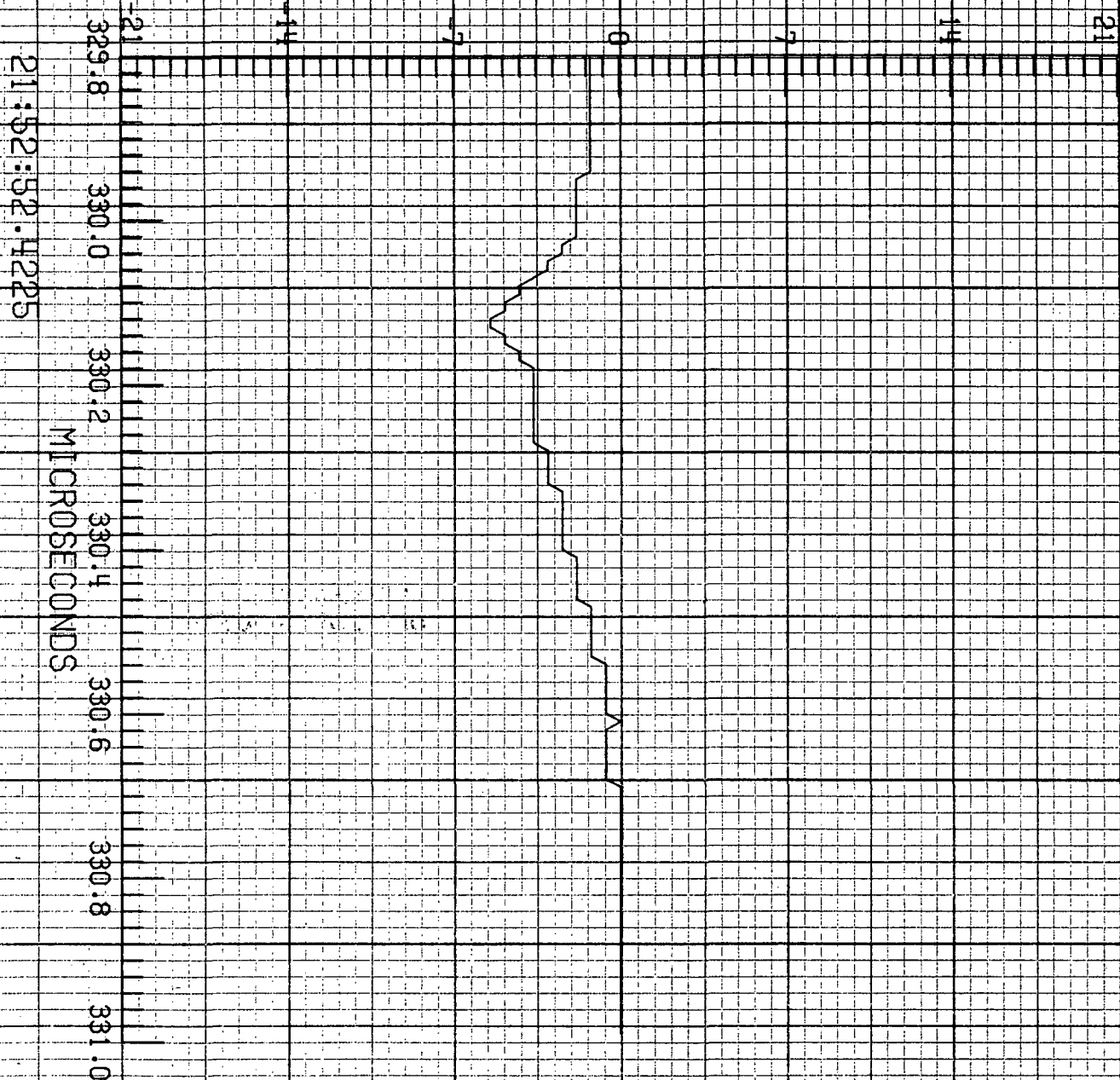
TEST NO. 83-016

RUN NO. 4

N-004

D DOT FWD

A/m²



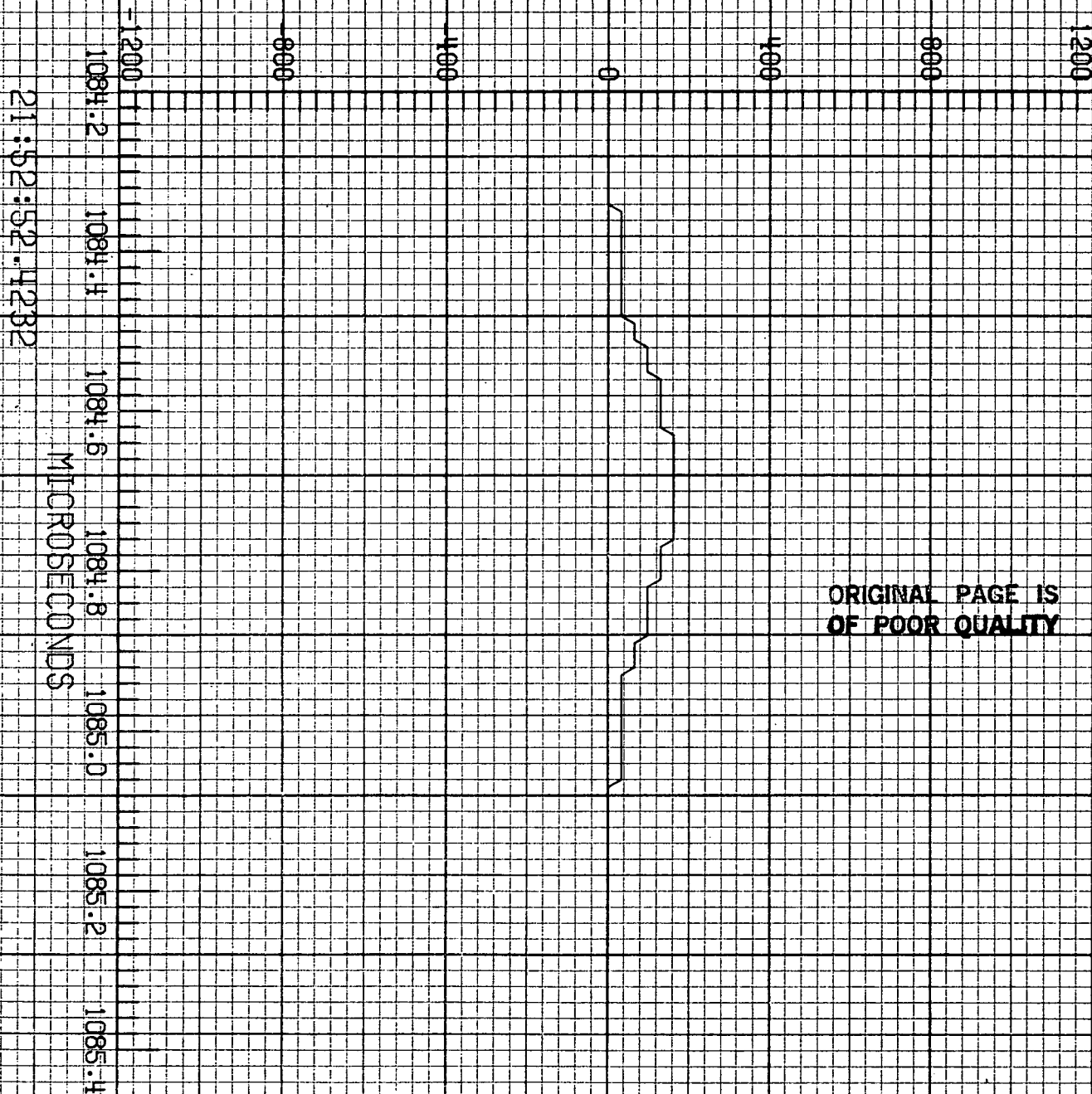
F106 LIGHTNING/TK-8/M.THOMAS

TEST NO. 83-011

RUN NO. 4

N-004

B DOT L T/S



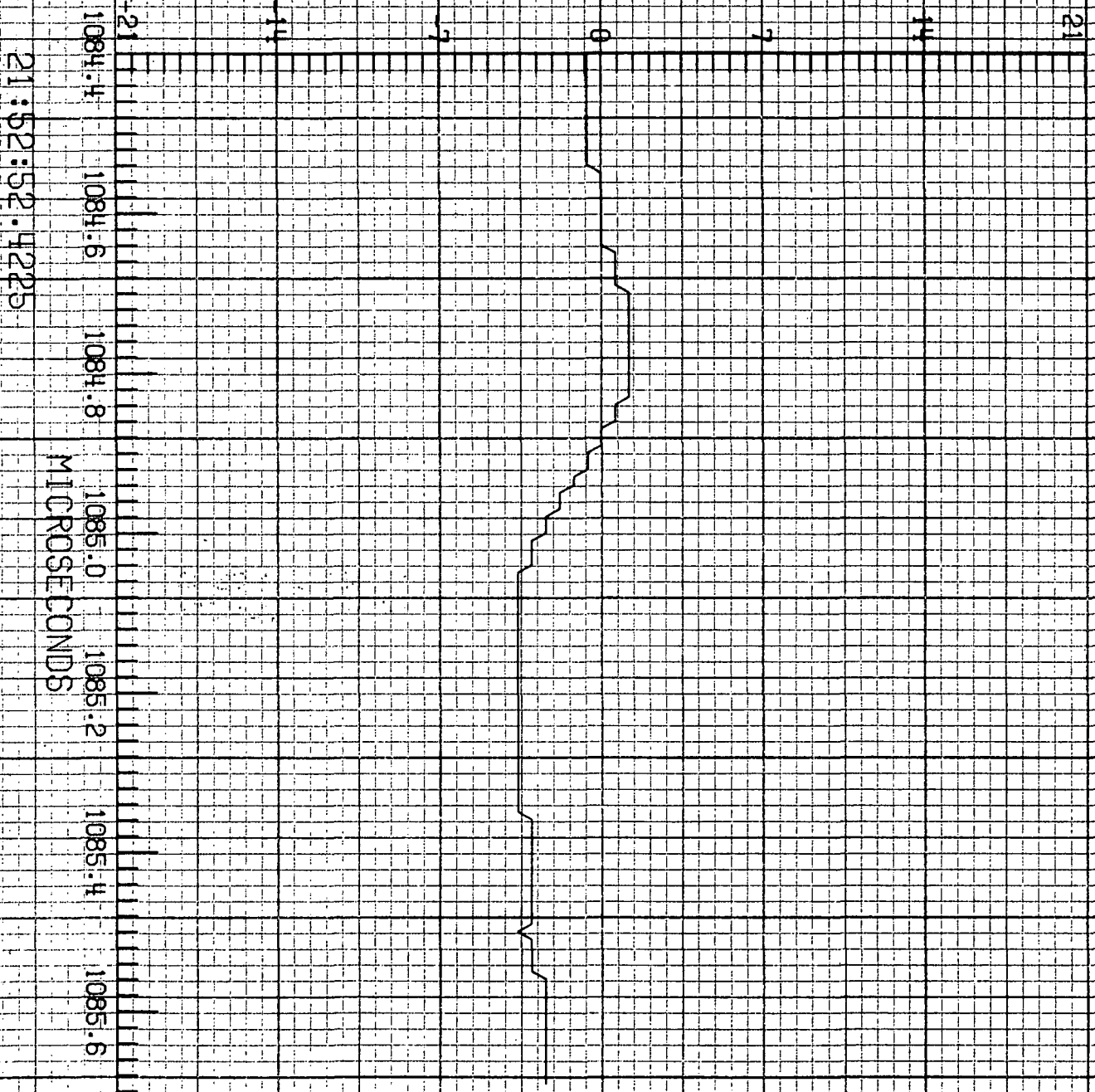
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106 LIGHTNING/TK-10/M. THOMAS
RUN NO. 4 N-004

TEST NO. 83-01

D DOT FWD A/m^2



F-106 LIGHTNING/TK.10/THOMAS

TEST NO. 83-01

RUN NO. 1

N-001

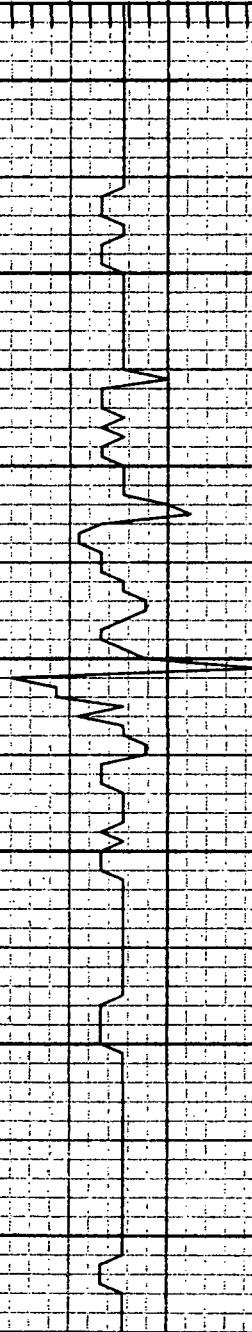
R DOT 1 T/S

21:05:16.0502

MICROSECONDS

306.8
307.0
307.2
307.4
307.6
307.8
308.0
308.2

-1200
-800
-400
0
400
800
1200



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F-106 LIGHTNING/FK.10/THOMAS

TEST NO. 83-01

RUN NO. 1

N-001

B DOT I T/S

-1200 -800 -400 0 400 800 1200

21:05:16.0502

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MICROSECONDS

337.0 337.2 337.4 337.6 337.8 338.0 338.2 338.4

F-106 LIGHTNING/TK.10/THOMAS

TEST NO. 83-01

RUN NO. 2

N-002

B DOT L T/S

1200
800
400
0
-400
-800
-1200

329.5
329.7
329.9
330.1
330.3
330.5
330.7
330.9

21:30:14.3322

MICROSECONDS

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650

ORIGINAL PAGE IS
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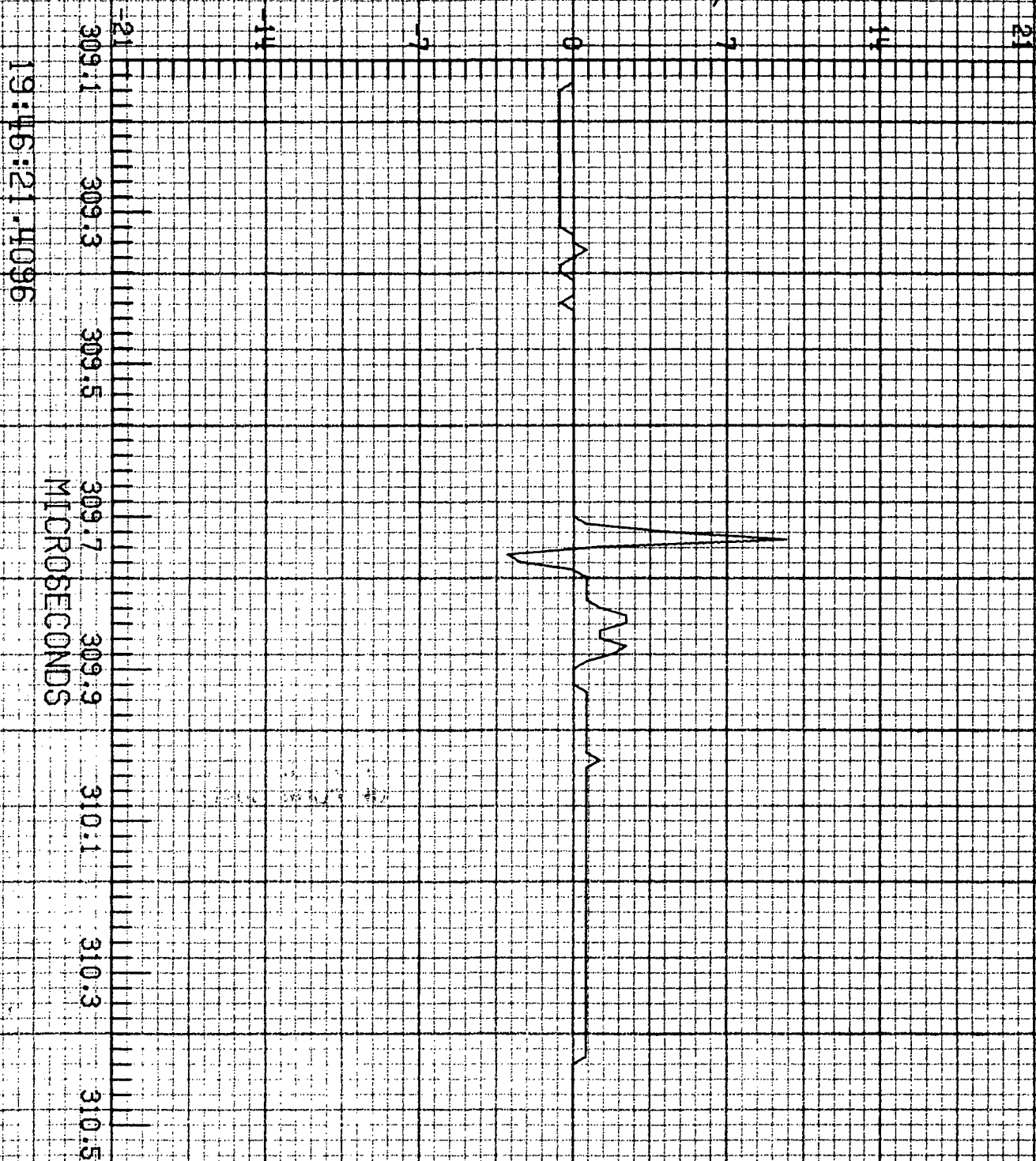
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TEST NO. 83-021

RUN NO. 1

S-001

D DOT FWD A/m^2



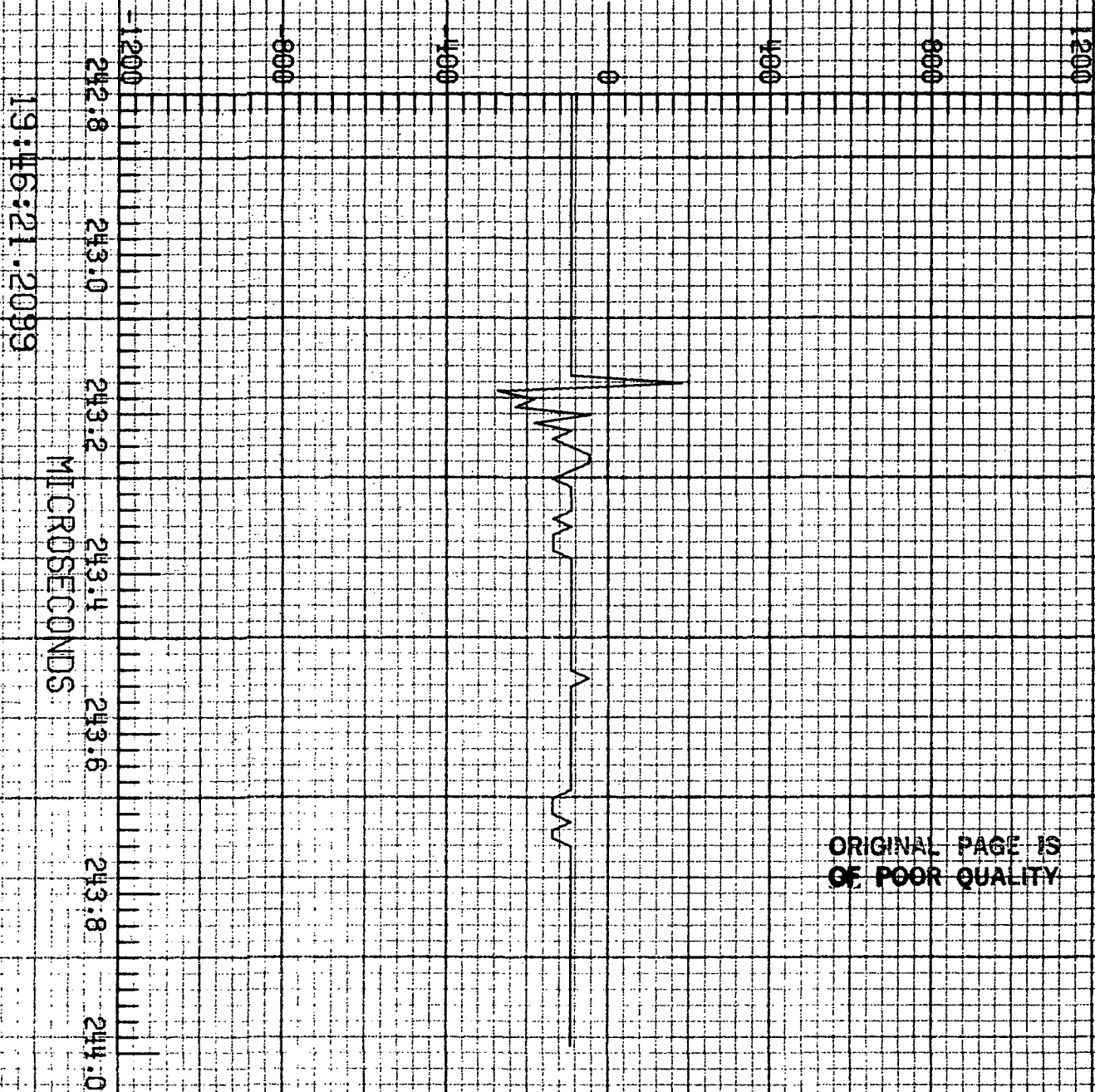
F-106 LIGHTNING/TK.10/THOMAS

TEST NO. 88-02

RUN NO. 1

S-001

B DOT L T/S



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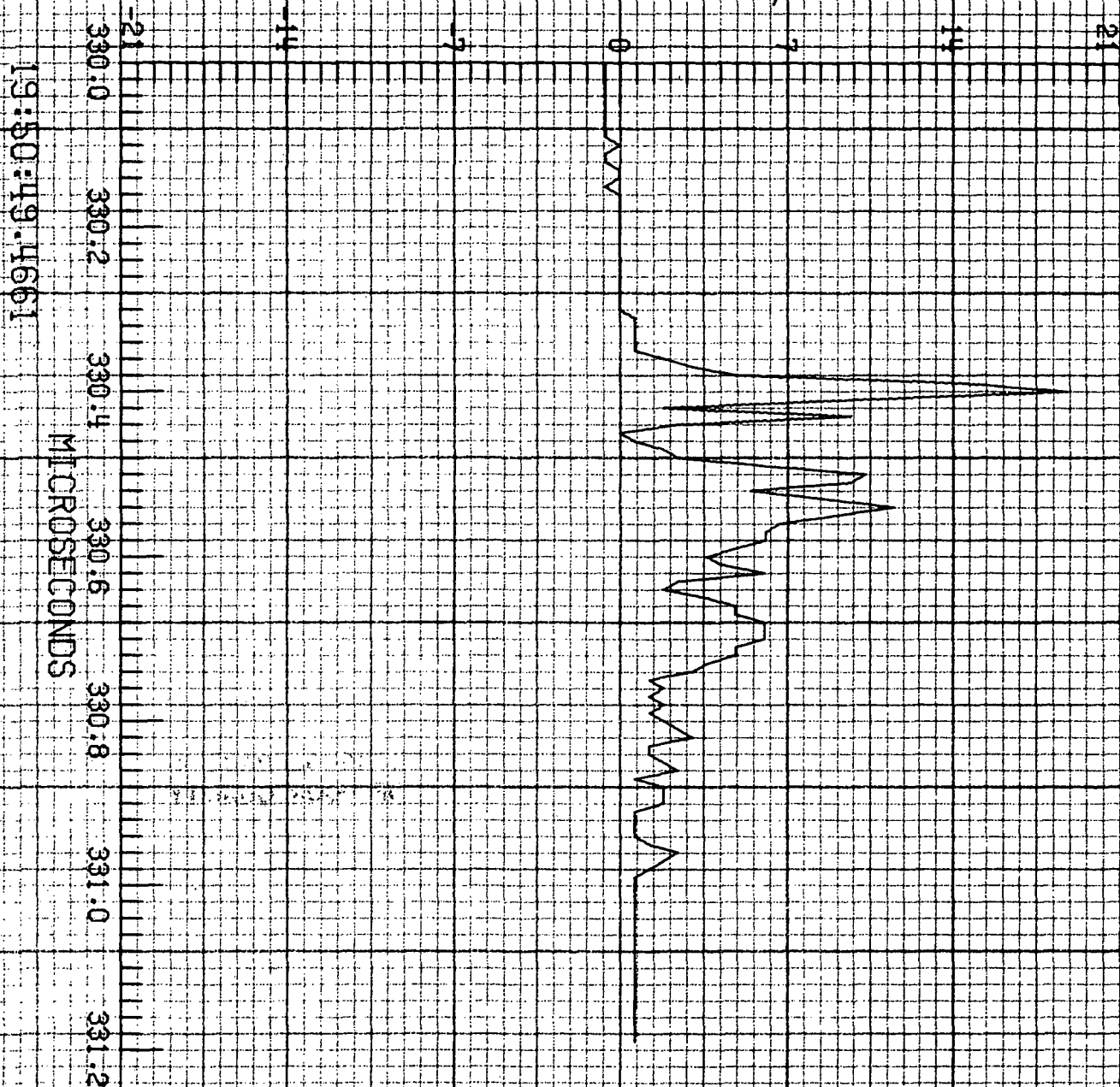
F-106 LIGHTNING/TK.8/THOMAS

TEST NO. 83-02

RUN NO. 2

S-002

D DOT FWD A/m^2

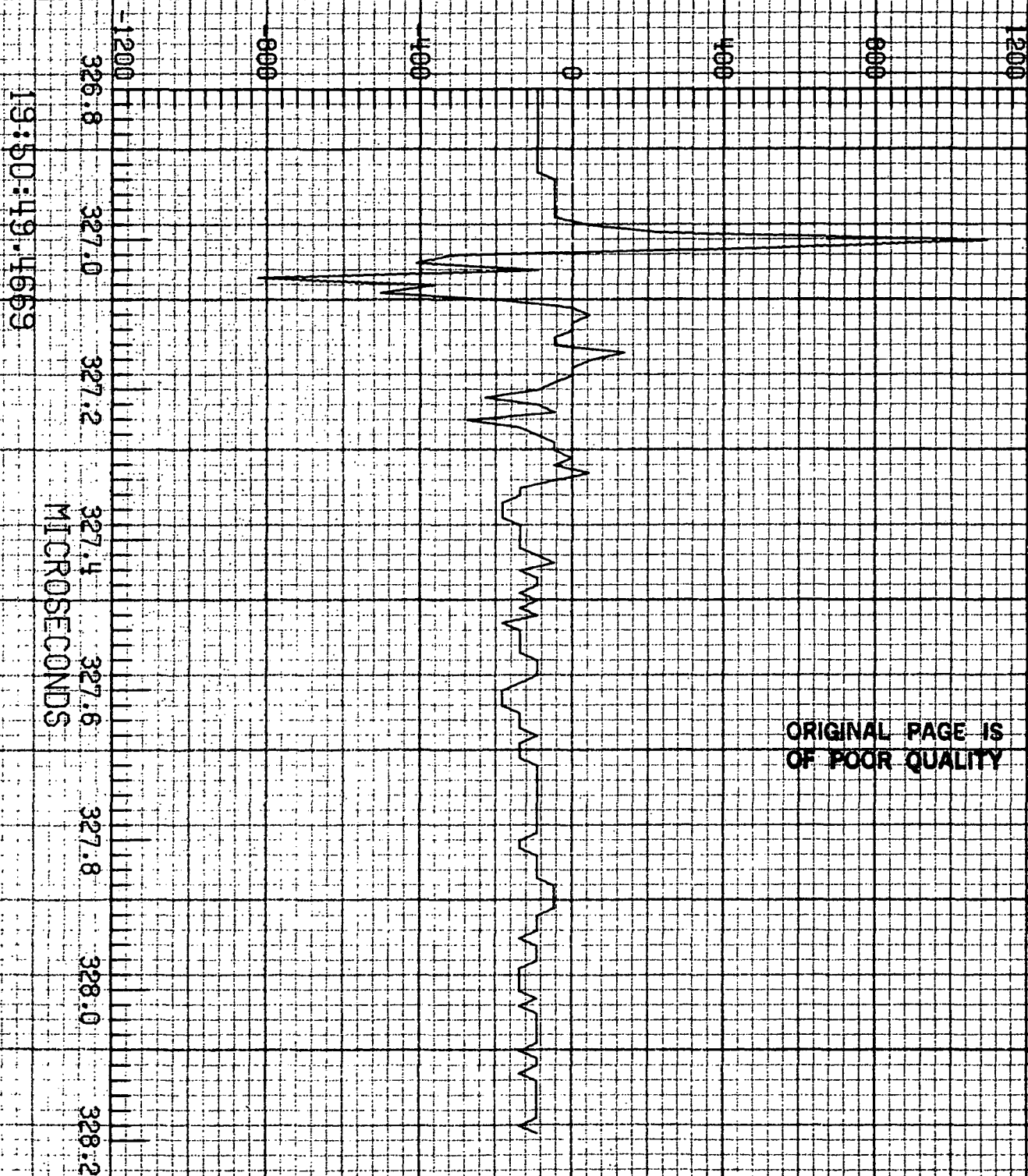


F-106 LIGHTNING/TK.1D/THOMAS
RUN NO. 2

S-002

TEST NO. 83-02

B DOT L T/S



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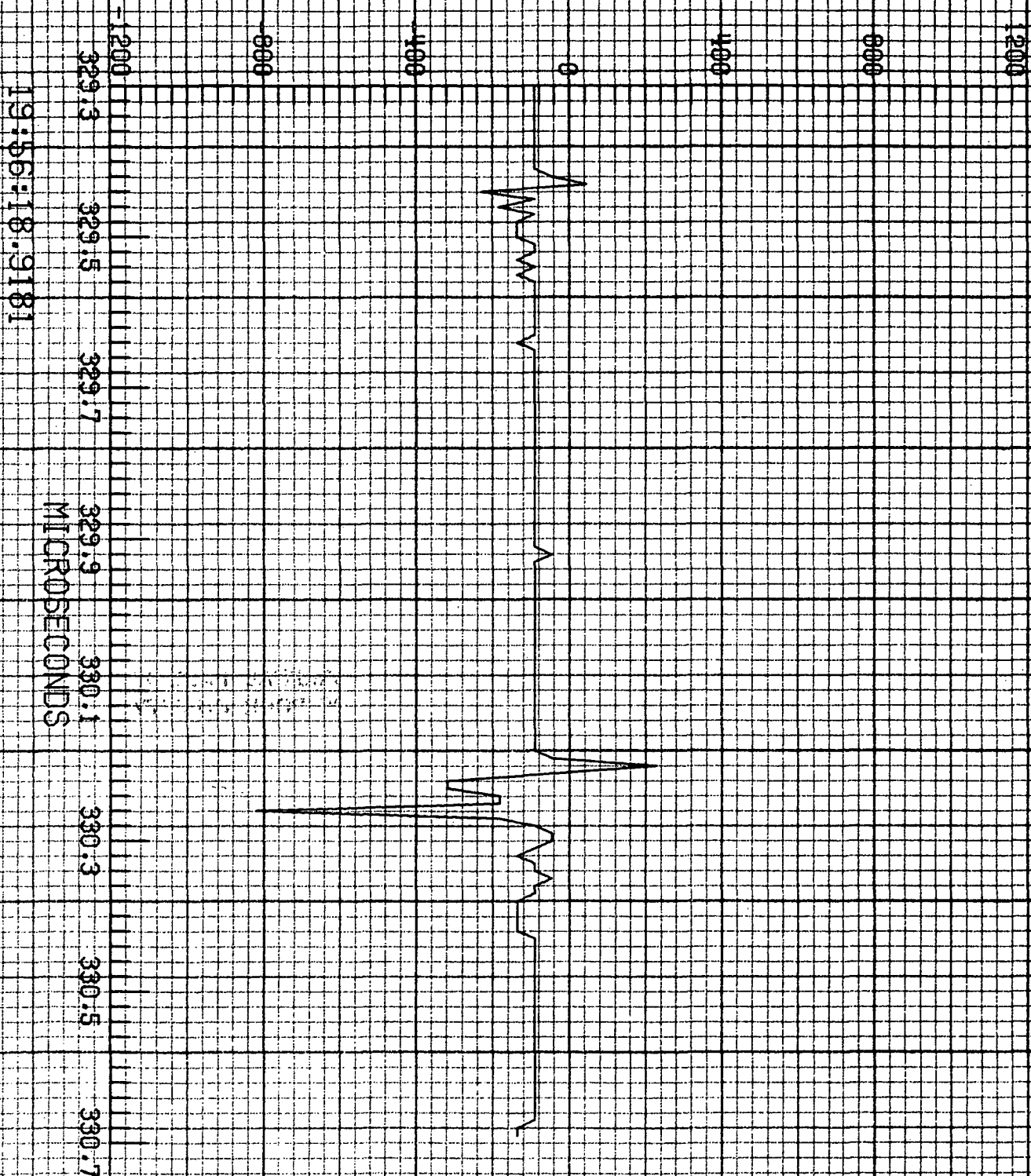
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TEST NO. 83-02

RUN NO. 3

N=001

B DOT L T/5



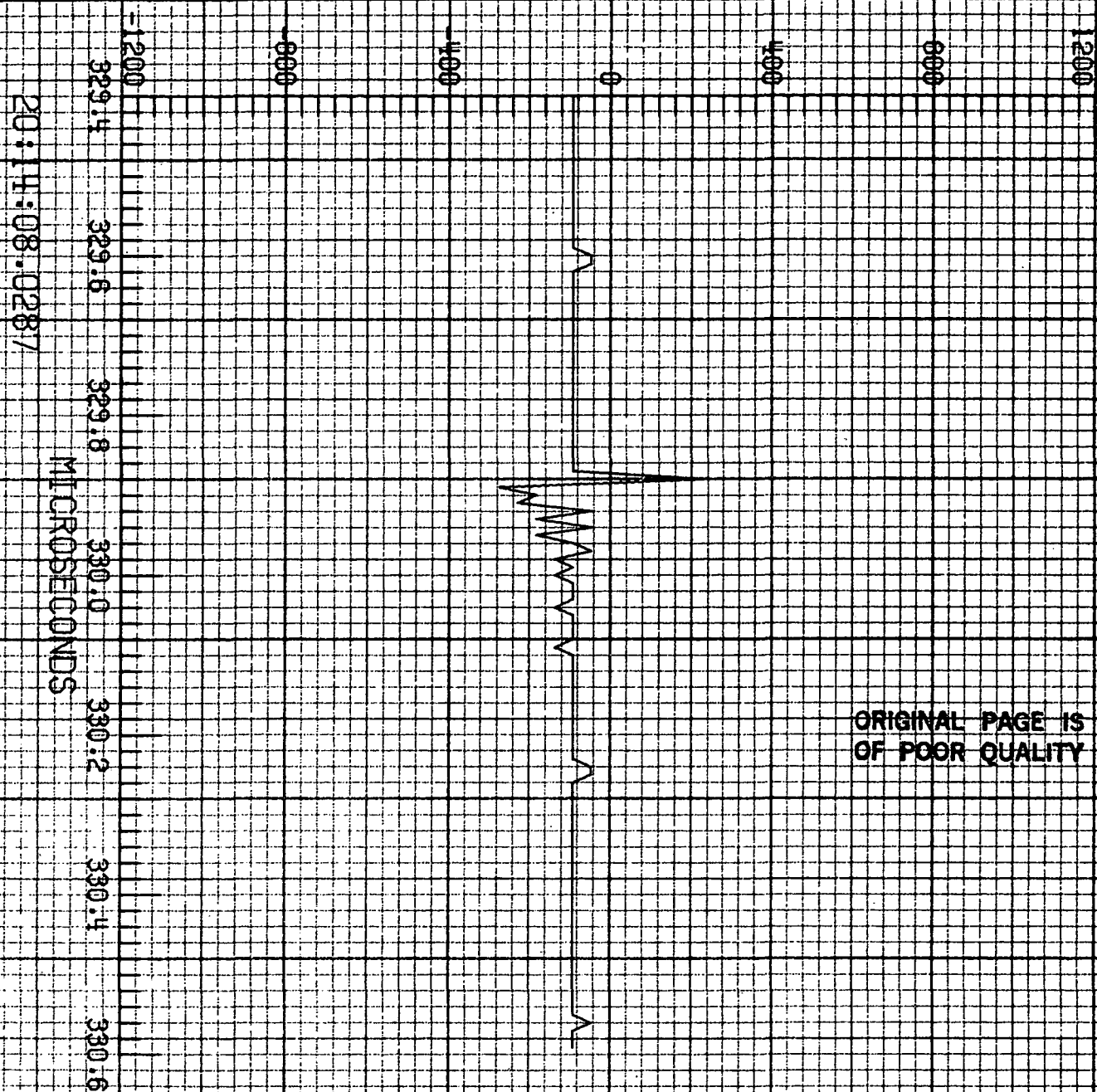
F-106 LIGHTNING/TK.10/THOMAS

TEST NO. 83-02

RUN NO. 4

N=002

B DOT I T/S



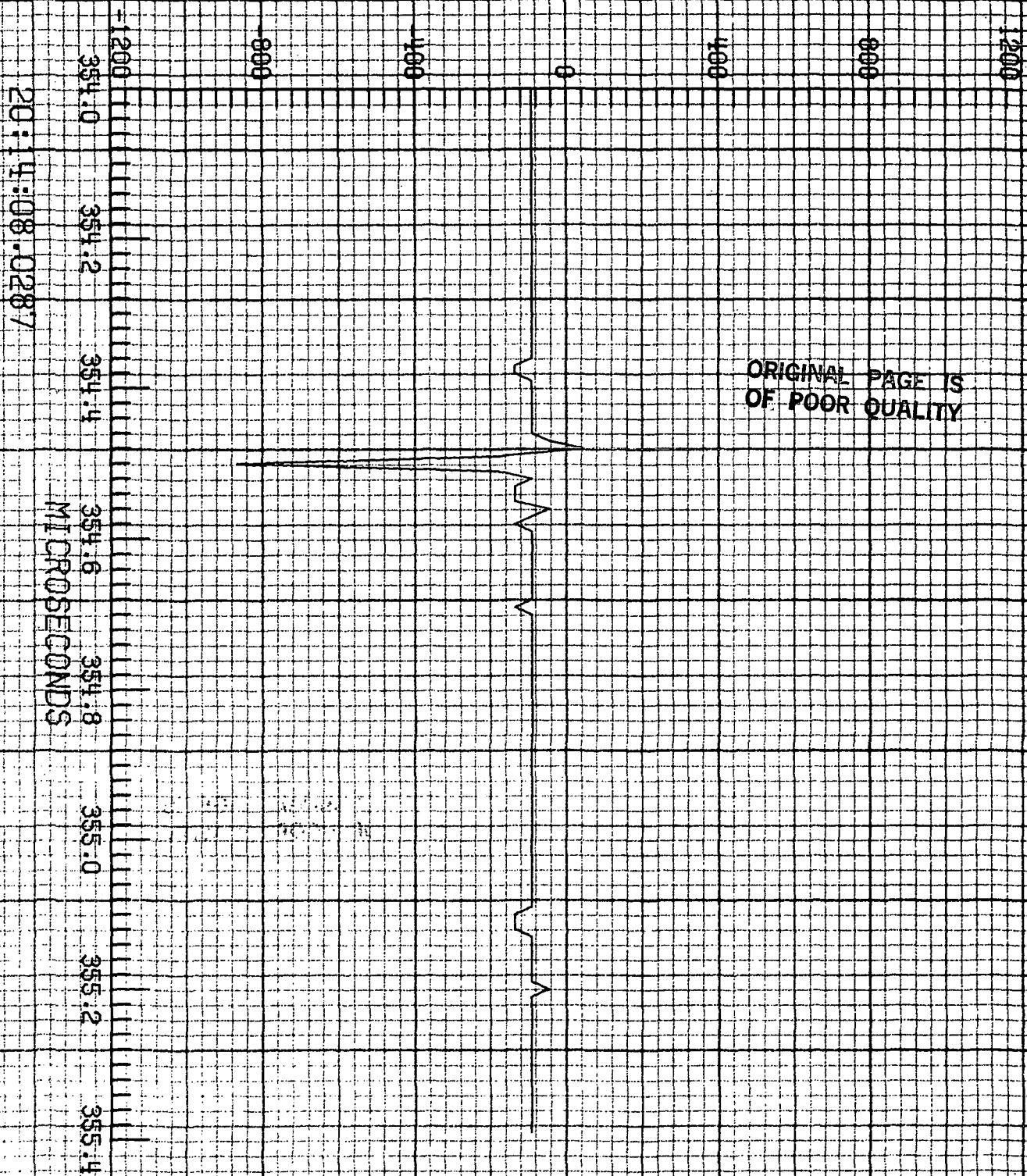
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TEST NO. 83-021

RUN NO. 1

N-002

B DOT II T/S



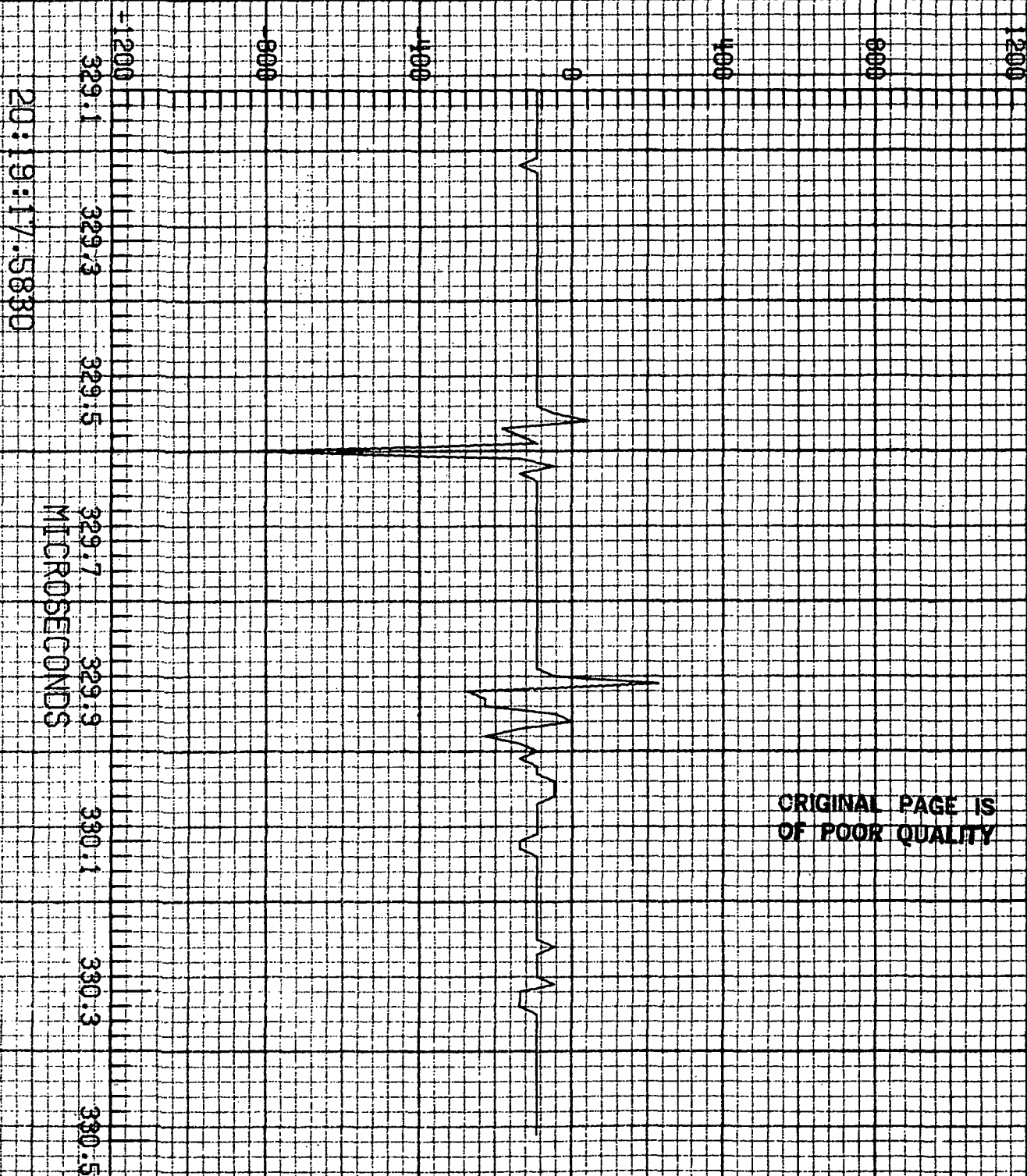
F-106 LIGHTNING/TK.10/THOMAS

TEST NO. 83-02

RUN NO. 5

S-003

B DOT L T/S



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F-106 LIGHTNING/TK.8/THOMAS
RUN NO. 5 N-003

TEST NO. 83-026

D DOT FWD A/m^2



F-106 LIGHTNING/TK.10/THOMAS

TEST NO. 83-02

RUN NO. 5

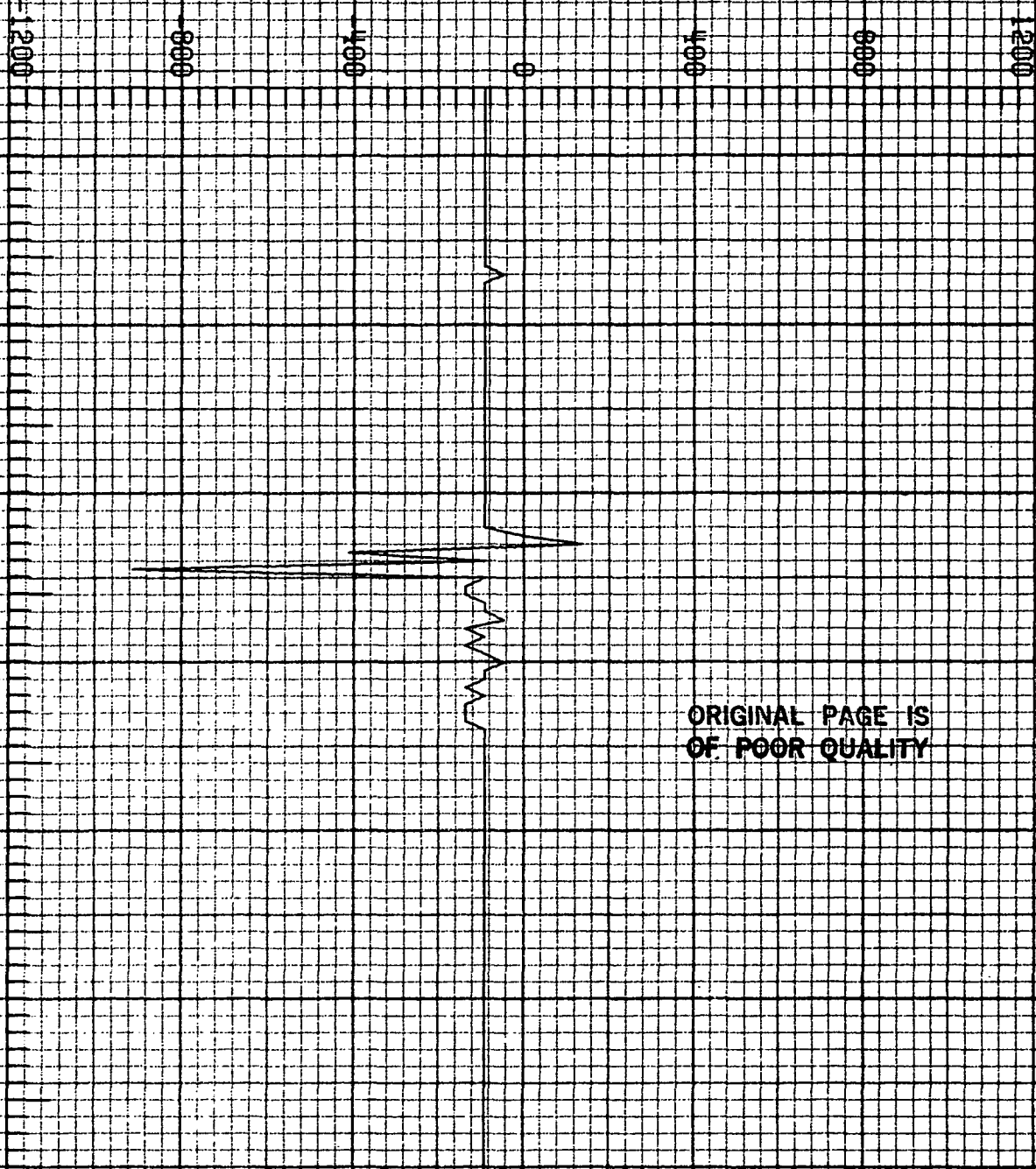
N=003

B DOT L T/5

20:29:18.9150

MICROSECONDS

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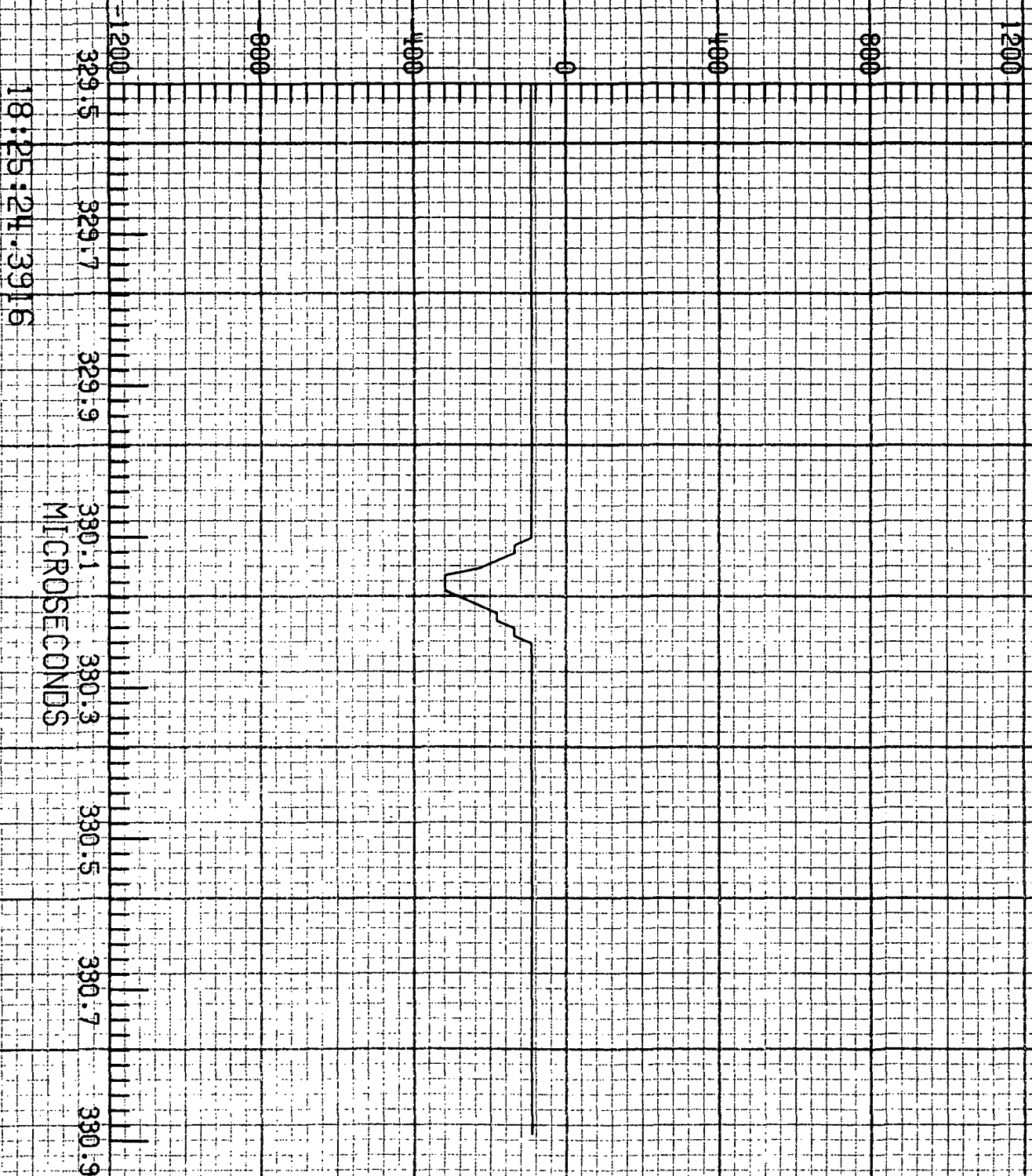
F106 LIGHTNING/TK.10/M.THOMAS

TEST NO. 83-02

RUN NO. 2

S-002

B DOT II T/S



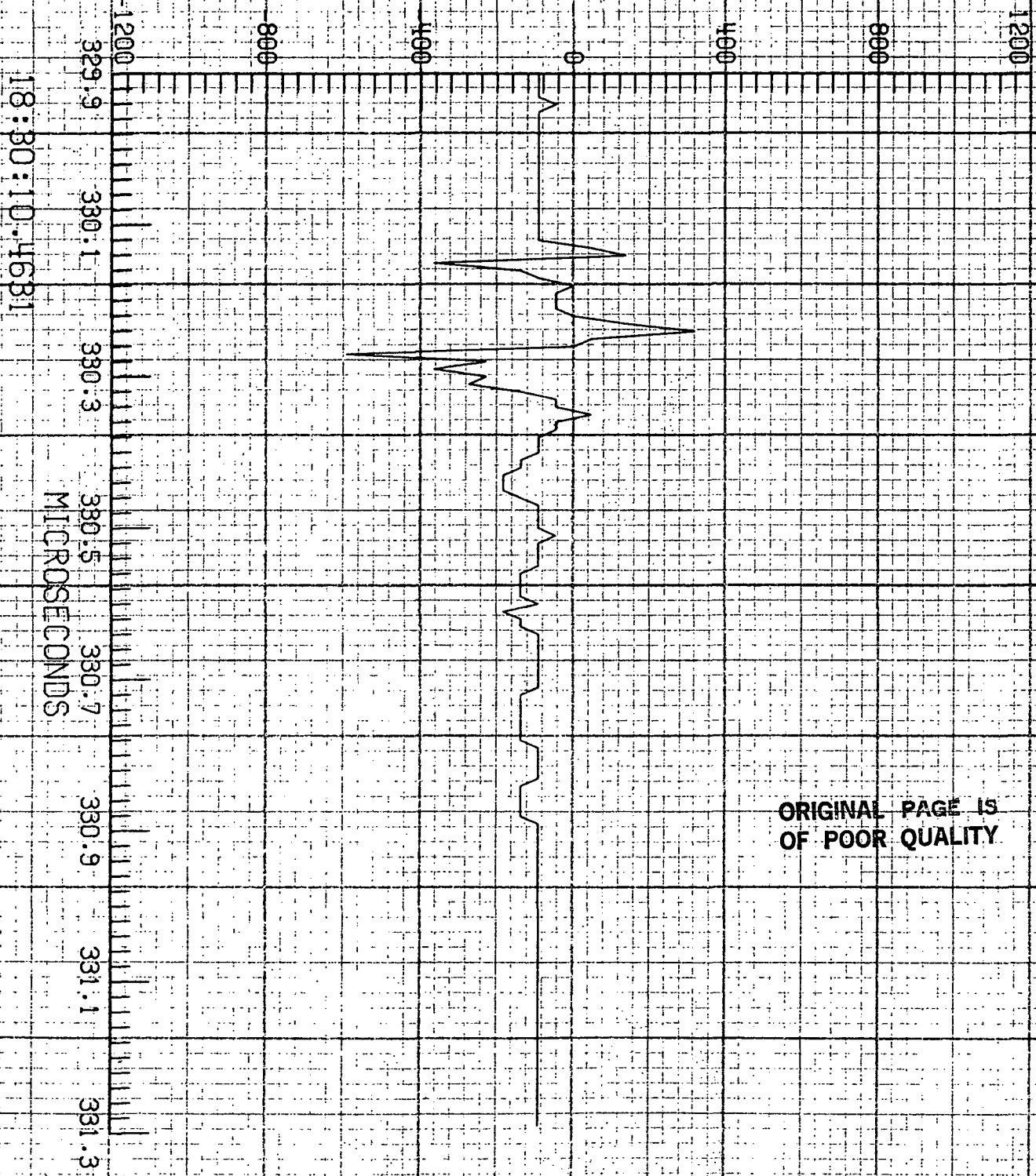
106 LIGHTNING/TK.10/M.THOMAS

TEST NO. 83-02

RUN NO. 3

S-003

B DOT L T/S



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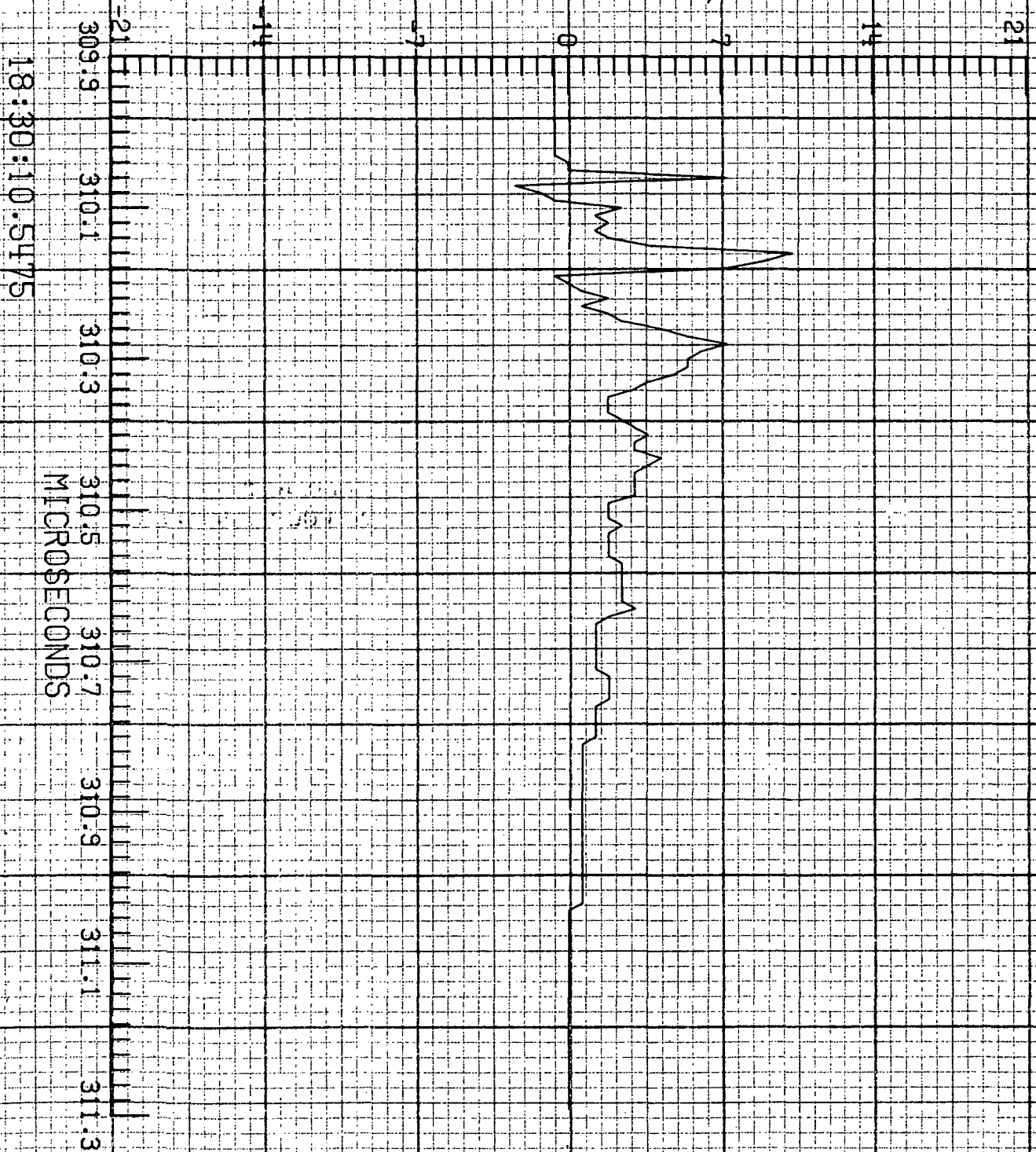
F106 LIGHTNING/TK.8/M.THOMAS

TEST NO. 83-021

RUN NO. 3

S-003

D DOT FWD A/m^2

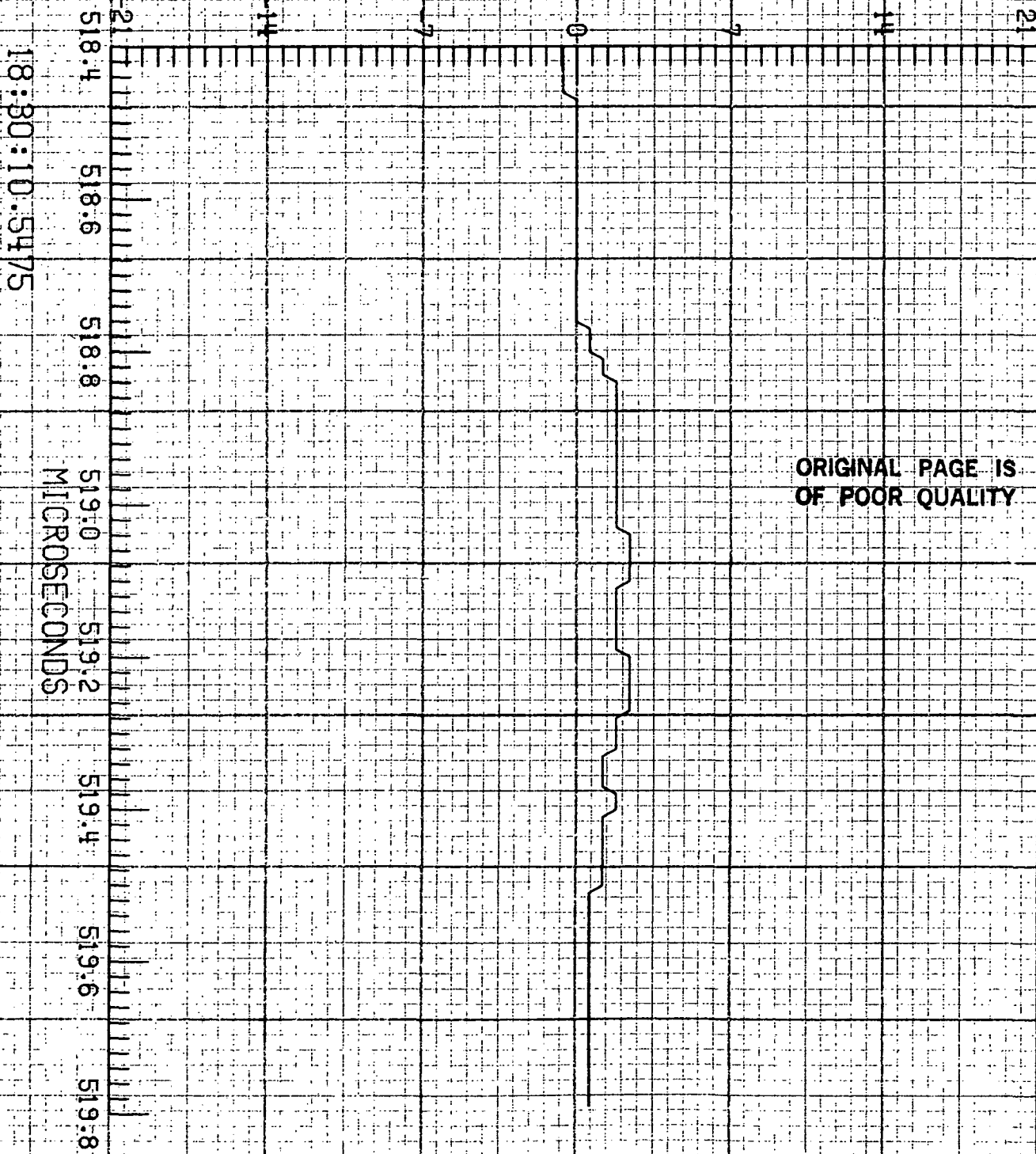


F106 LIGHTNING/TK.8/M.THOMAS
RUN NO. 8

S-003

TEST NO. 83-02

D DOT FWD A/m^2



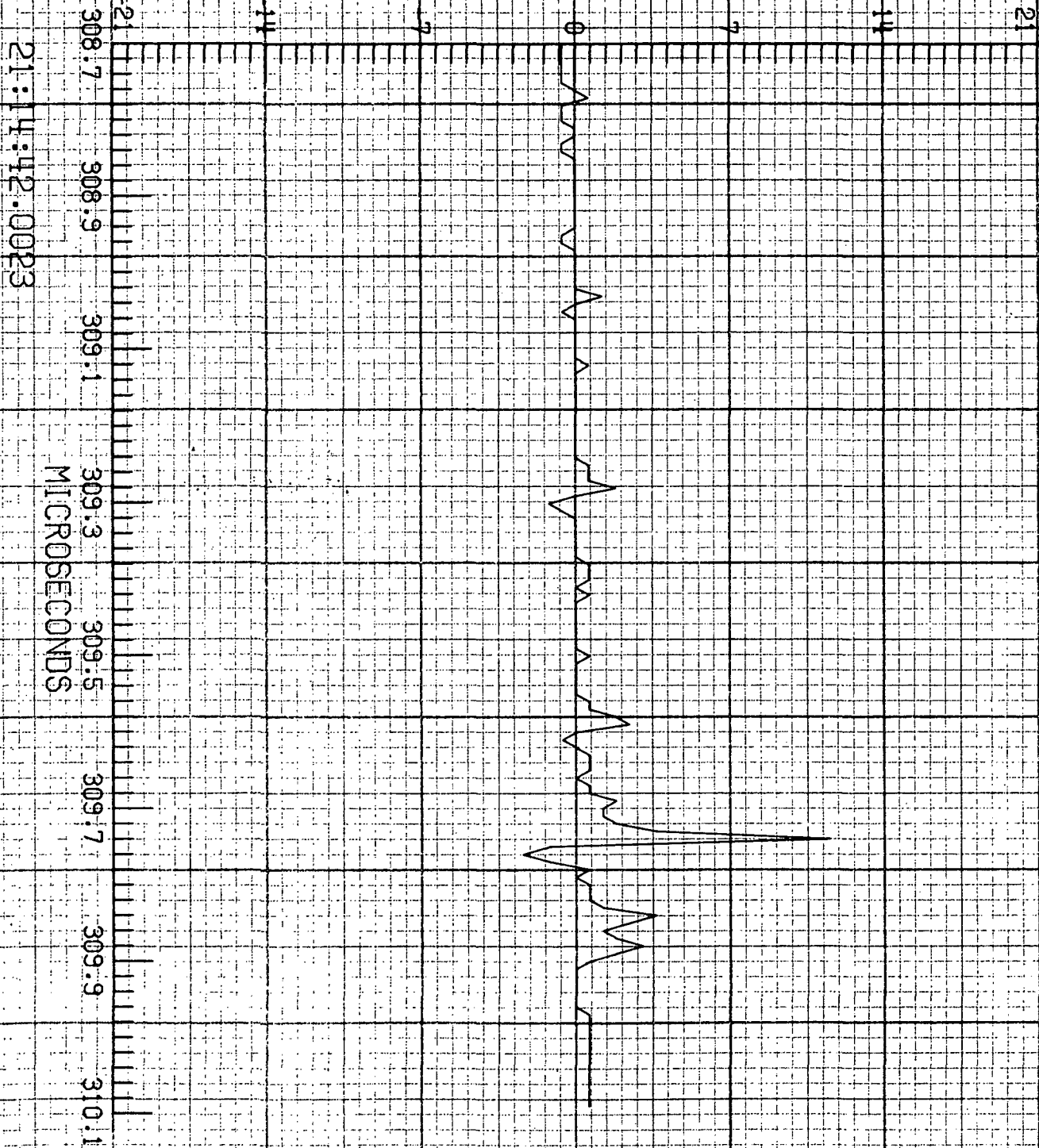
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RUN NO. 2 S-001

TEST NO. 83-022

D DOT FWD A/m^2



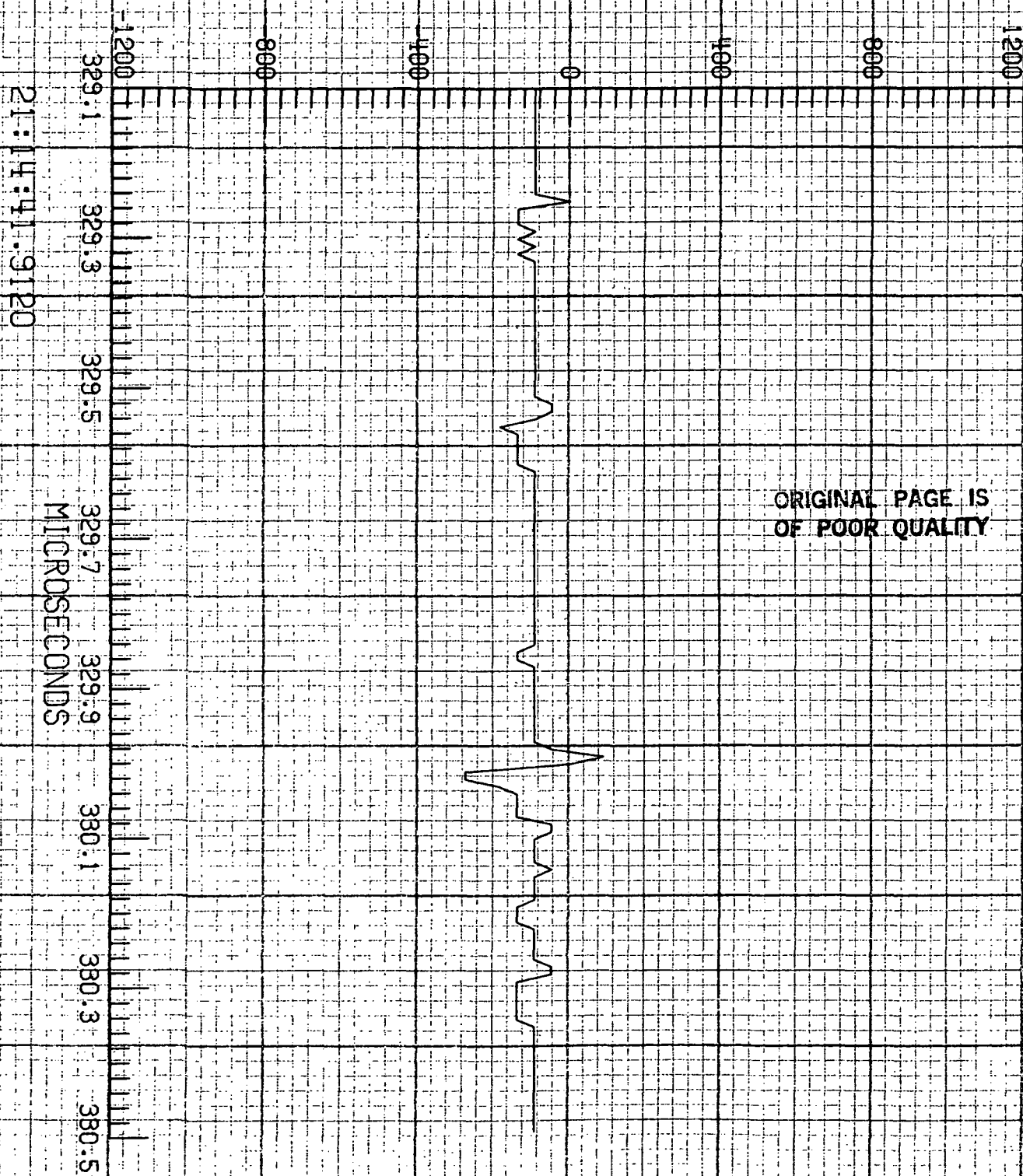
F106 LIGHTNING/TK 10/M.THOMAS

TEST NO. 83-02

RUN NO. 2

S-001

B DOT L T/S



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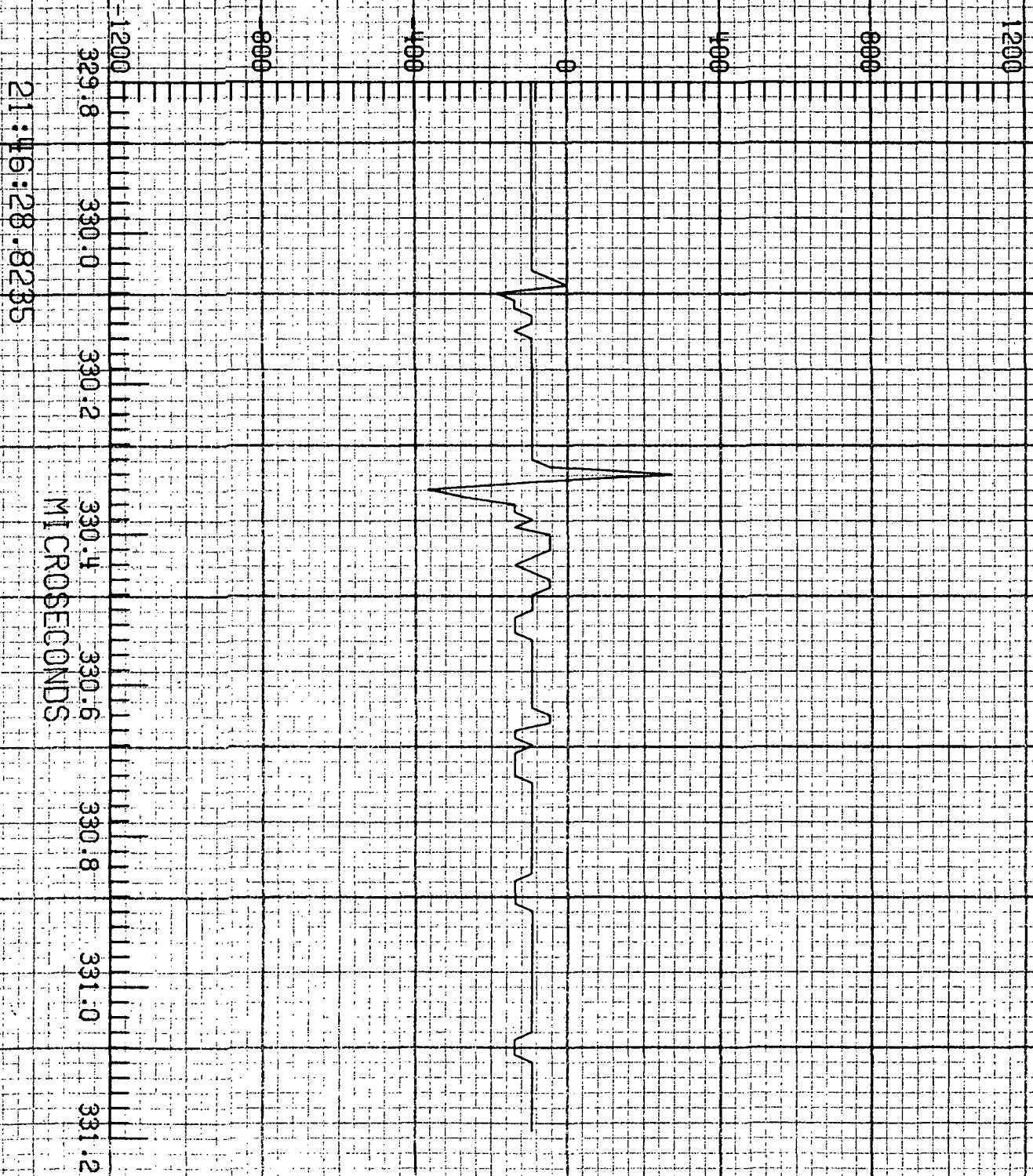
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TEST NO. 83-02

RUN NO. 3

N-001

B DOT L T/S



F106 LIGHTNING/TK.8/M.THOMAS

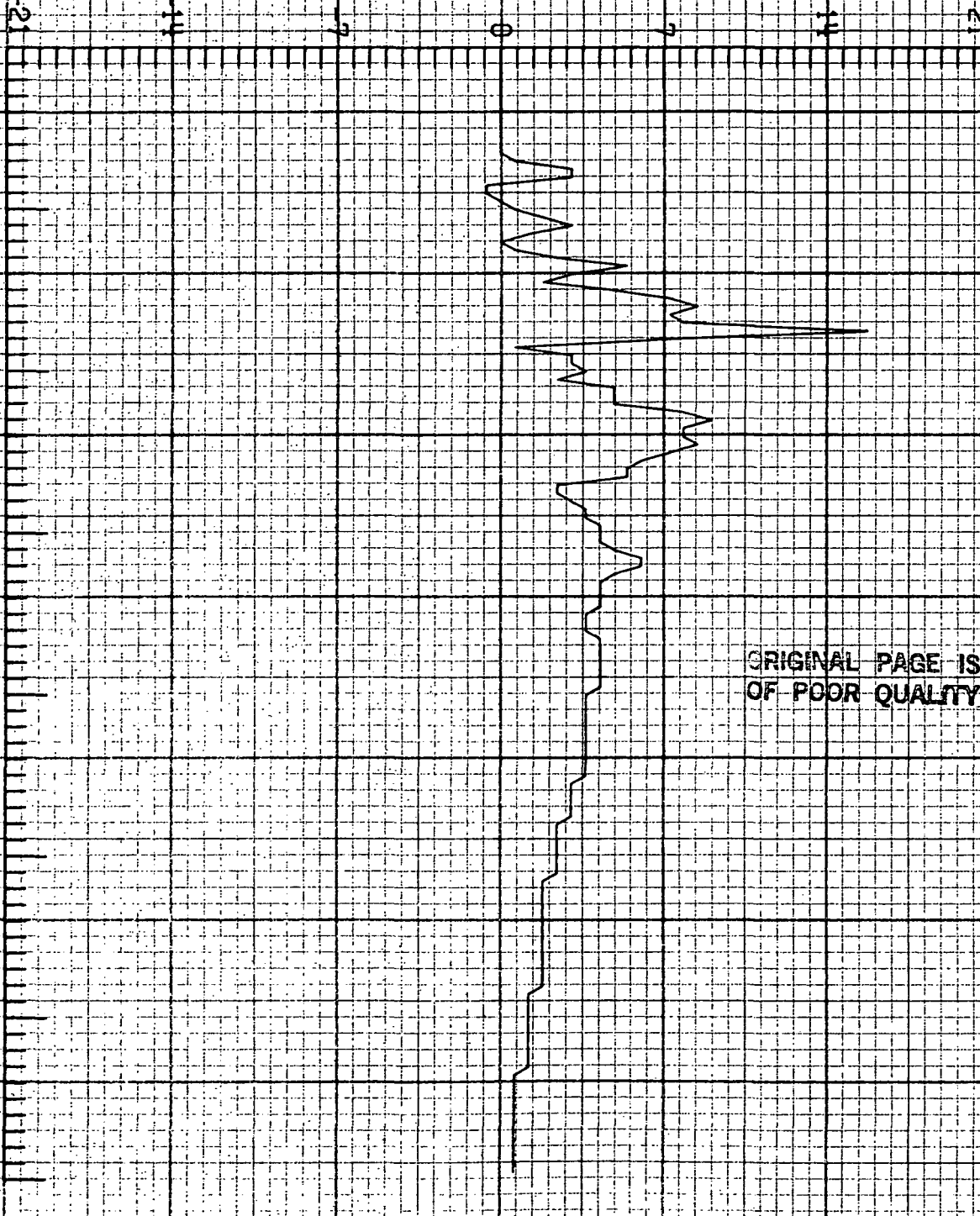
TEST NO. 83-02

RUN NO. 1

S-001

D DOT FWD A/m²

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MICROSECONDS



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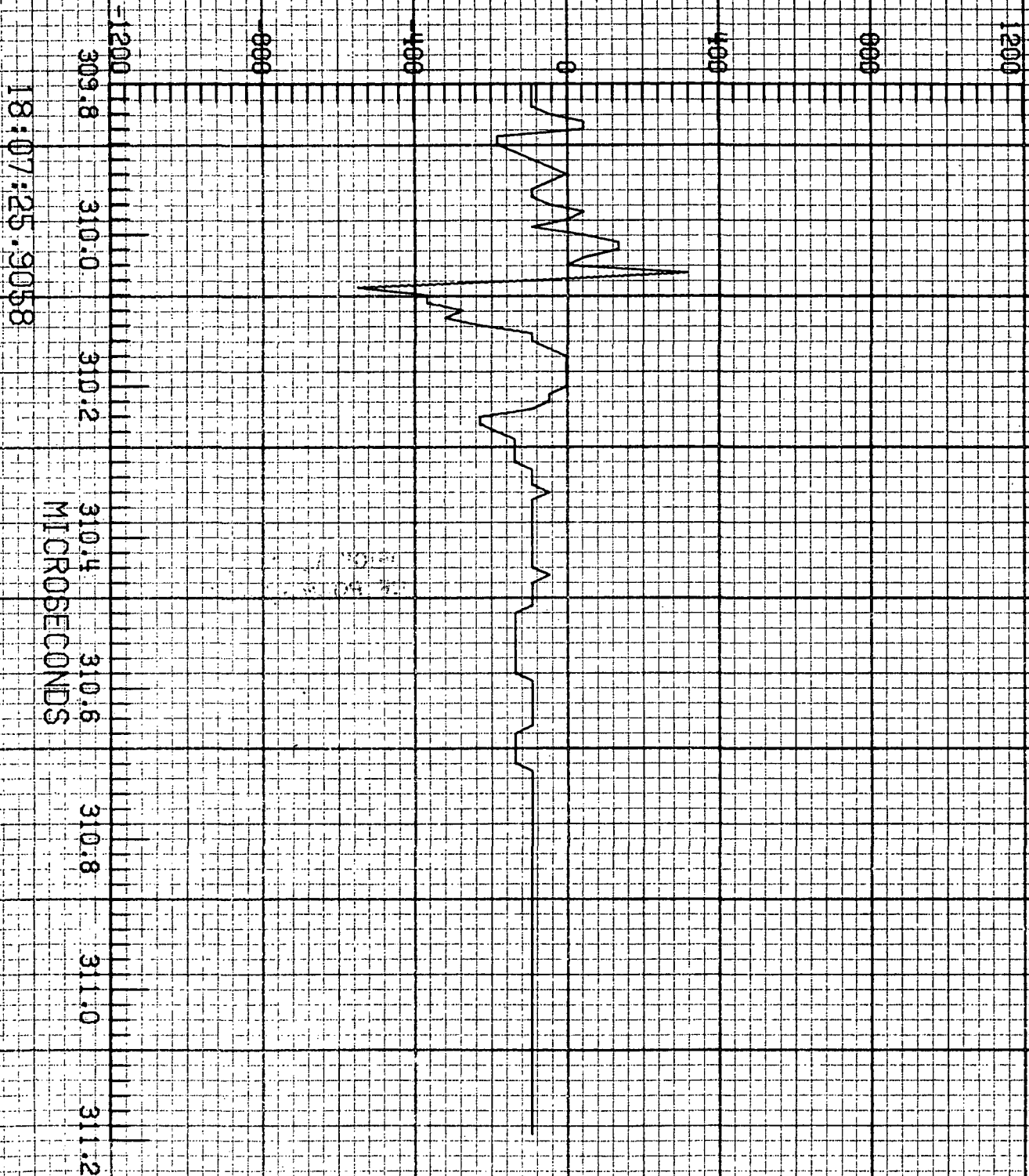
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TEST NO. 83-023

RUN NO. 1

S-001

B DOT L T/S



F106 LIGHTNING/TK.8/M.THOMAS

TEST NO. 83-02

RUN NO. 1

S-001

D DOT FWD A/m^2

18:07:25.9058

1210.6

1210.8

1211.0

1211.2

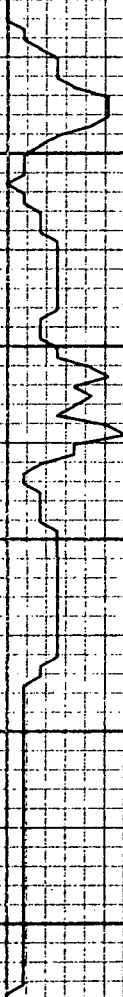
1211.4

1211.6

1211.8

1212.0

MICROSECONDS



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F106 LIGHTNING/TK-10/M. THOMAS

TEST NO. 83-02

RUN NO. 1

S-001

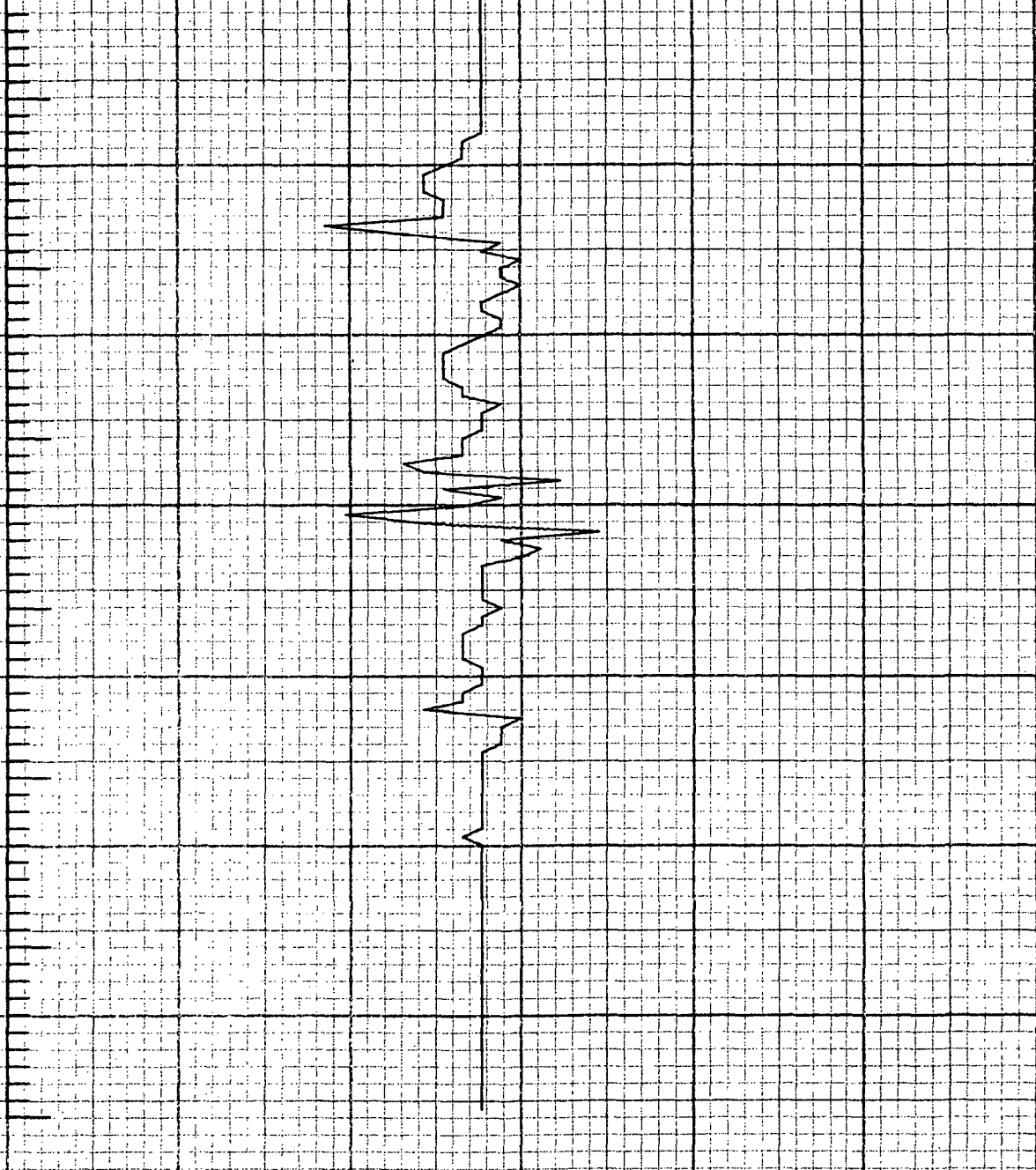
B DOT L T/S

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1210.6 1210.8 1211.0 1211.2 1211.4 1211.6 1211.8 1212.0

18:07:25.9058

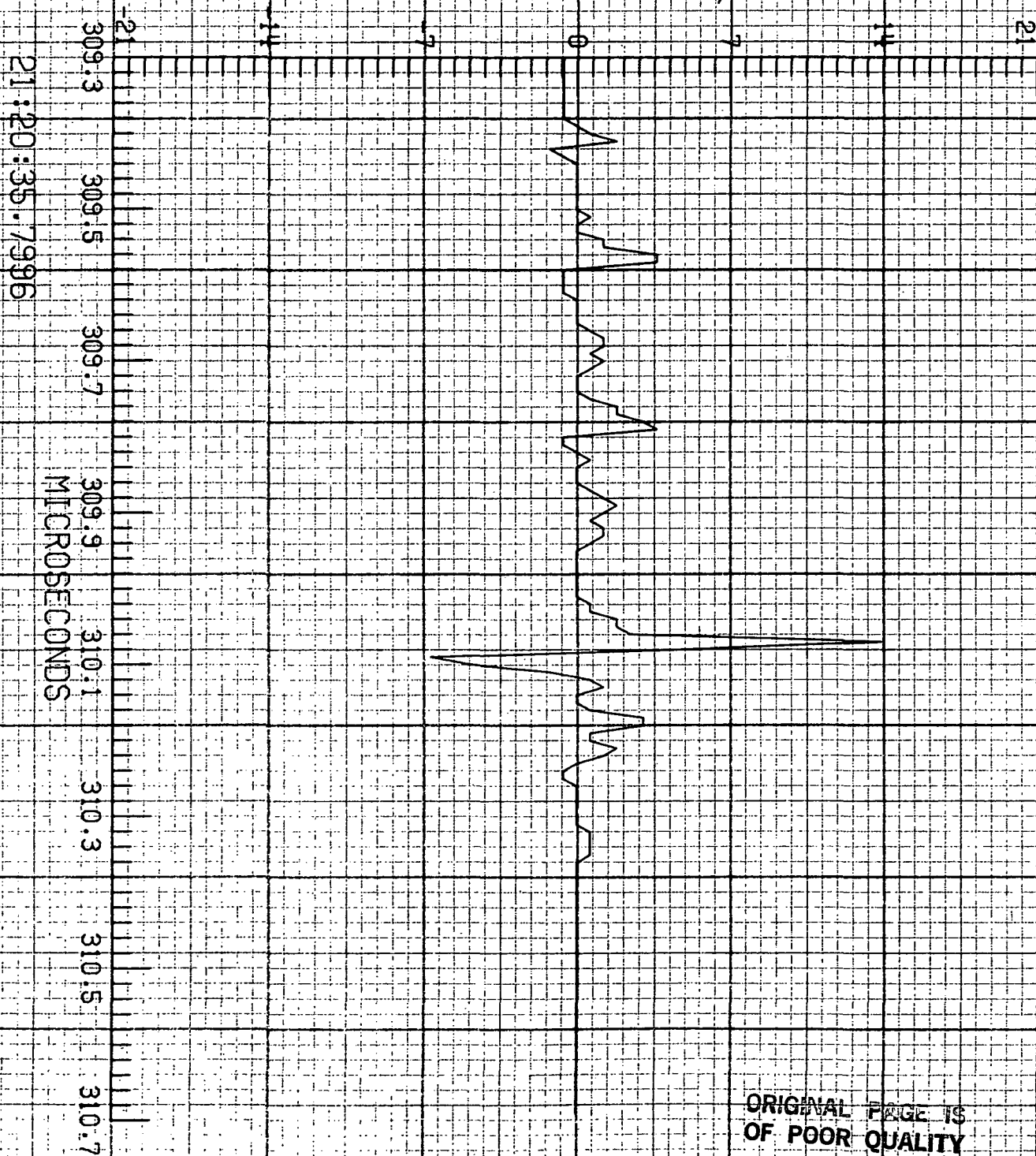
MICROSECONDS



F106 LIGHTNING/TK.8/M.THOMAS
RUN NO. 1 S-001

TEST NO. 83-02

D DOT FWD A/m^2



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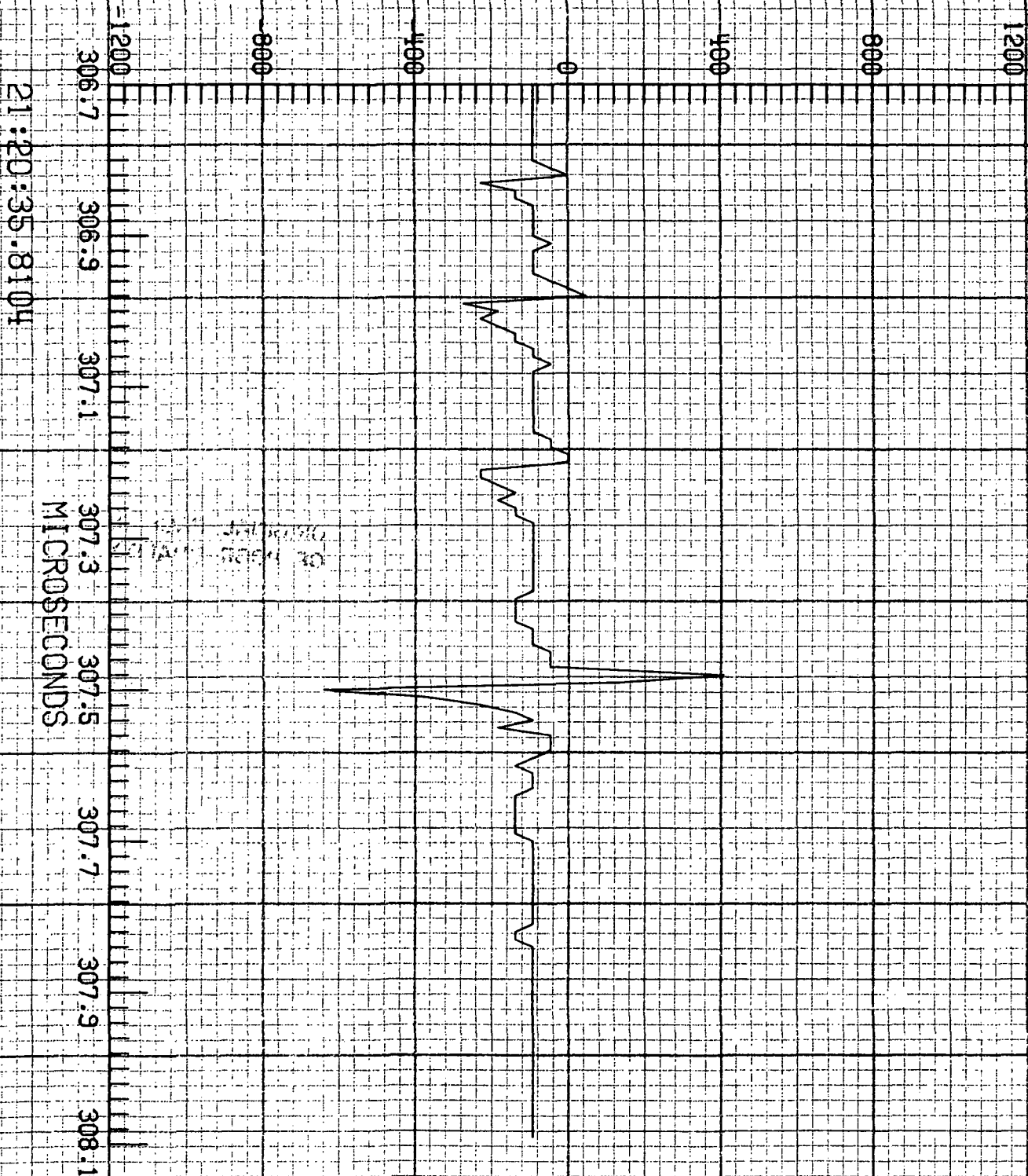
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TEST NO. 83-02

RUN NO. 1

S-001

B DOT L T/S

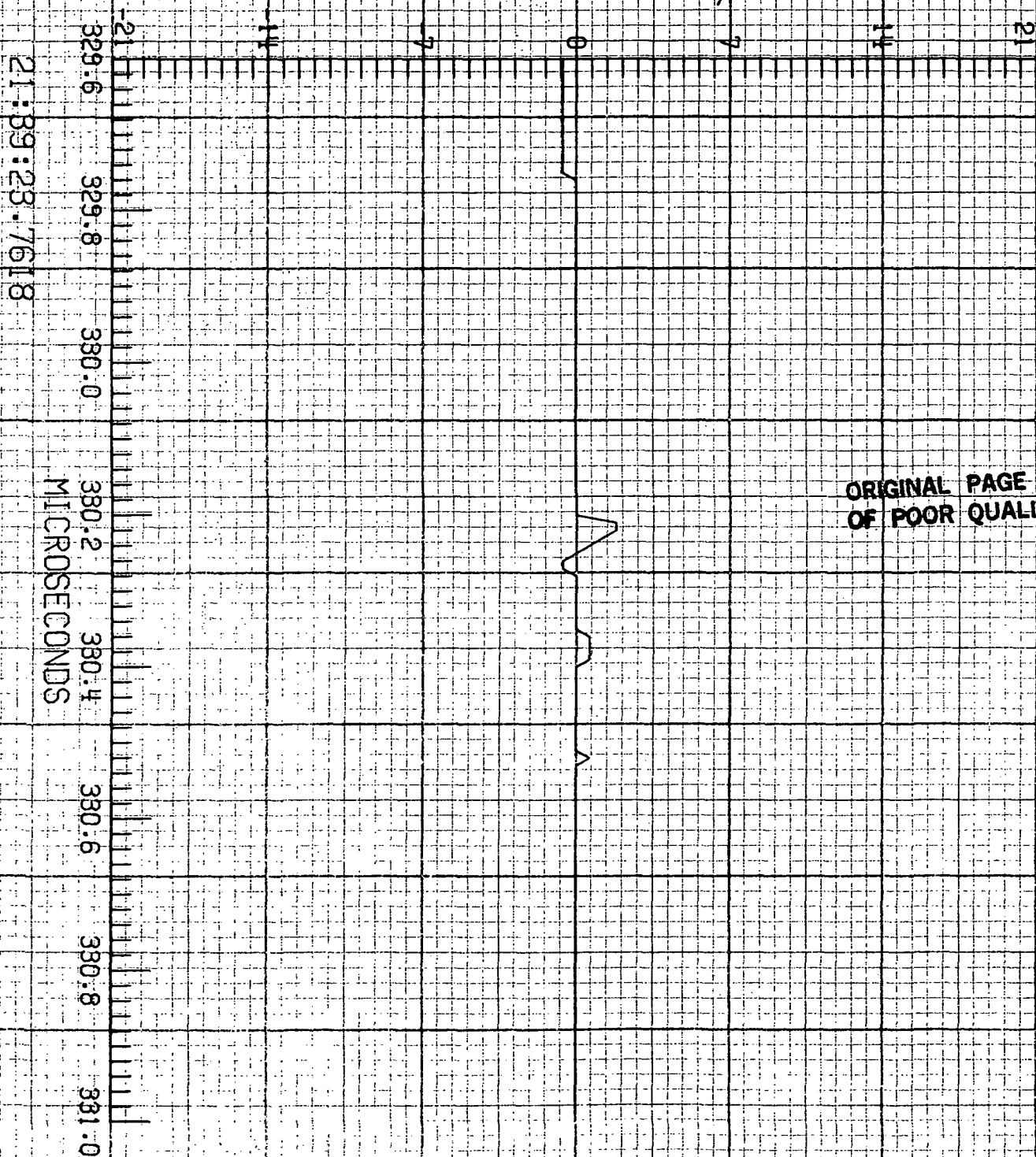


F106 LIGHTNING/TK.8/M.THOMAS
RUN NO. 2

S-003

TEST NO. 83-02

D DOT FWD A/m^2



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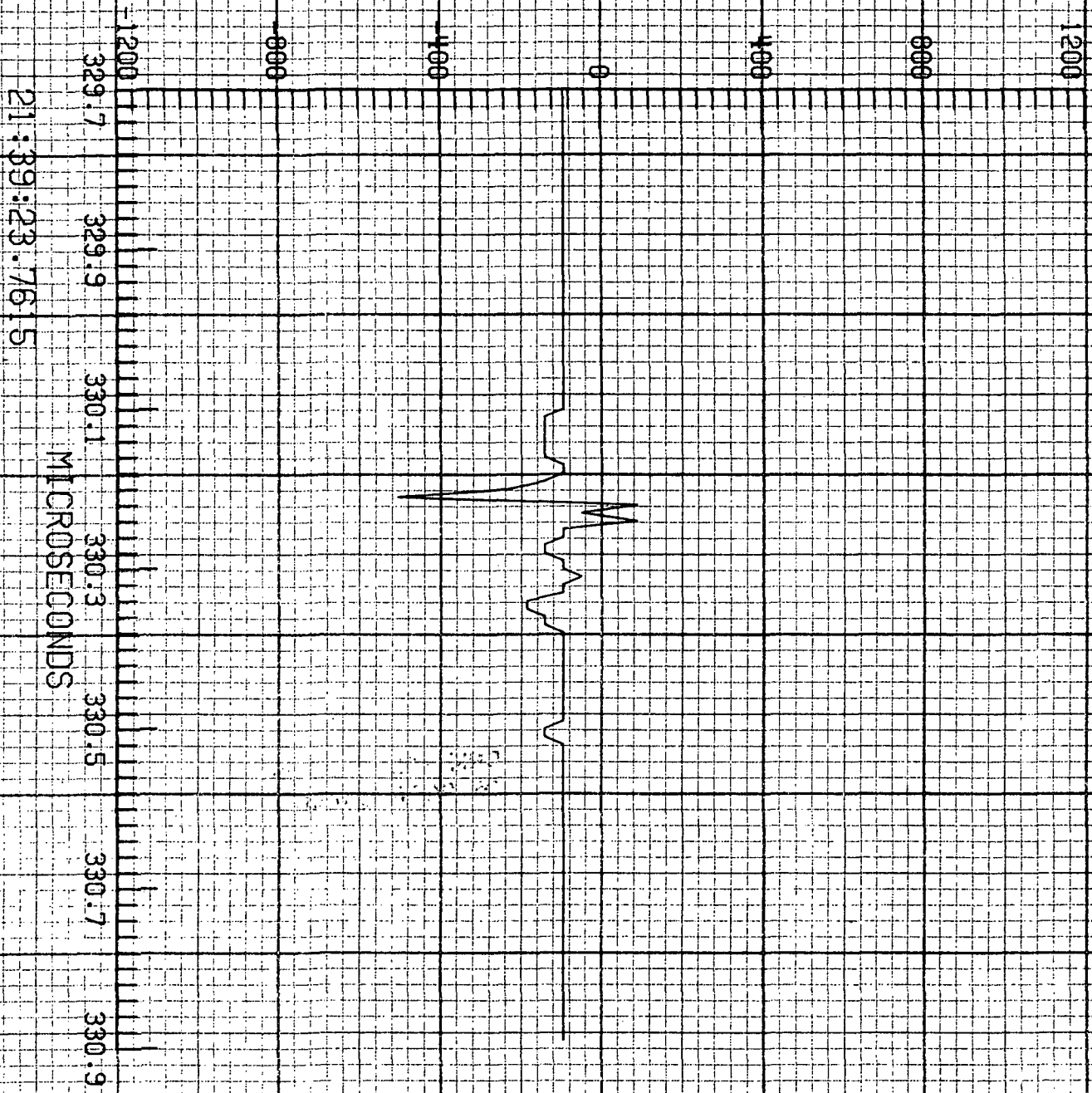
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TEST NO. 83-02

RUN NO. 2

S-003

B DOT I T/S



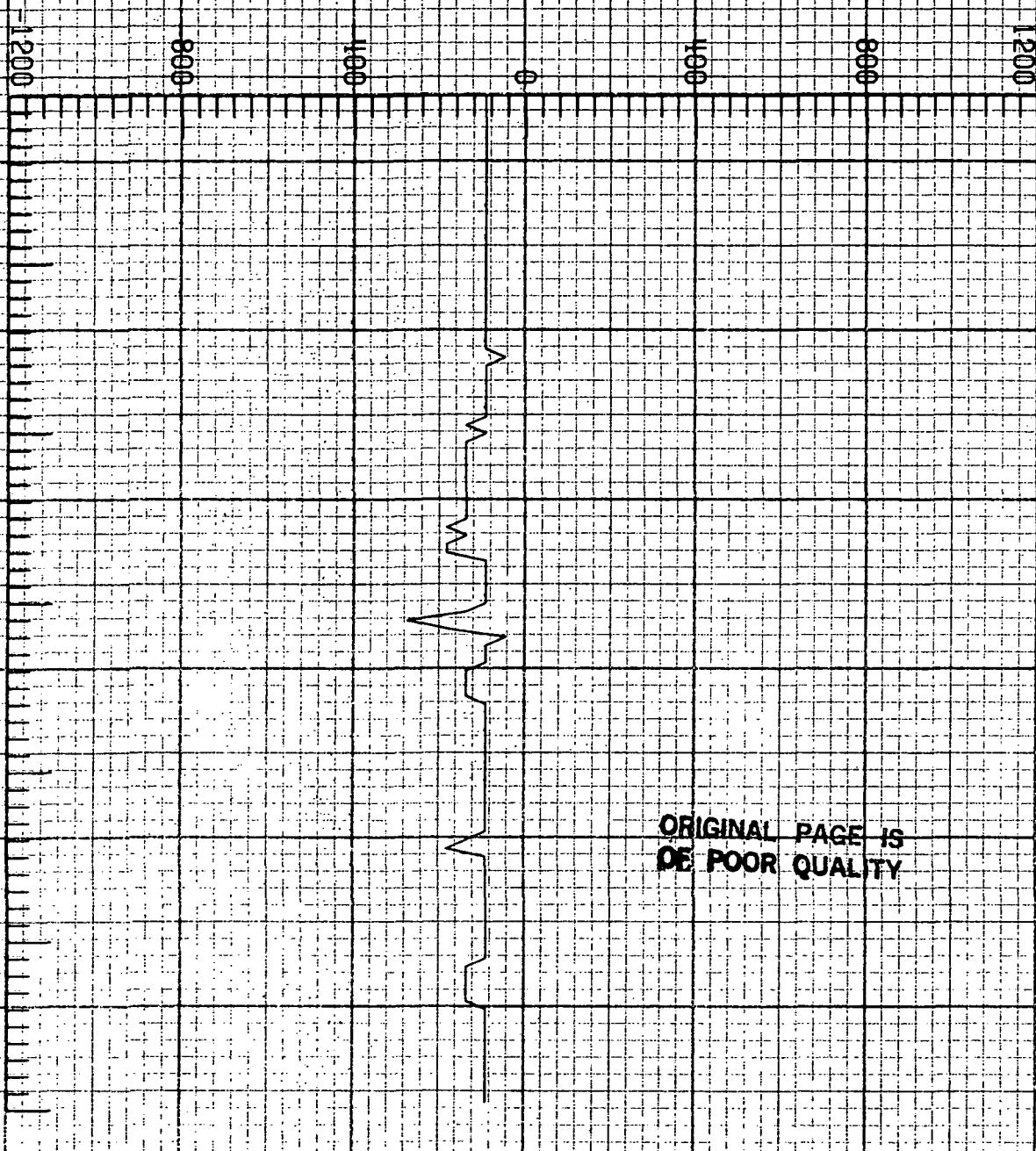
F106 LIGHTNING/TK.10/M.THOMAS

TEST NO. 83-02

RUN NO. 3

N-001

B DOT L T/S



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F106 LIGHTNING/TK.8/M.THOMAS

TEST NO. 83-02

RUN NO. 1

S-004

D DOT FWD

A/m²

21:42:18.7853

329.6
329.8
330.0
330.2
330.4
330.6
330.8
331.0
MICROSECONDS



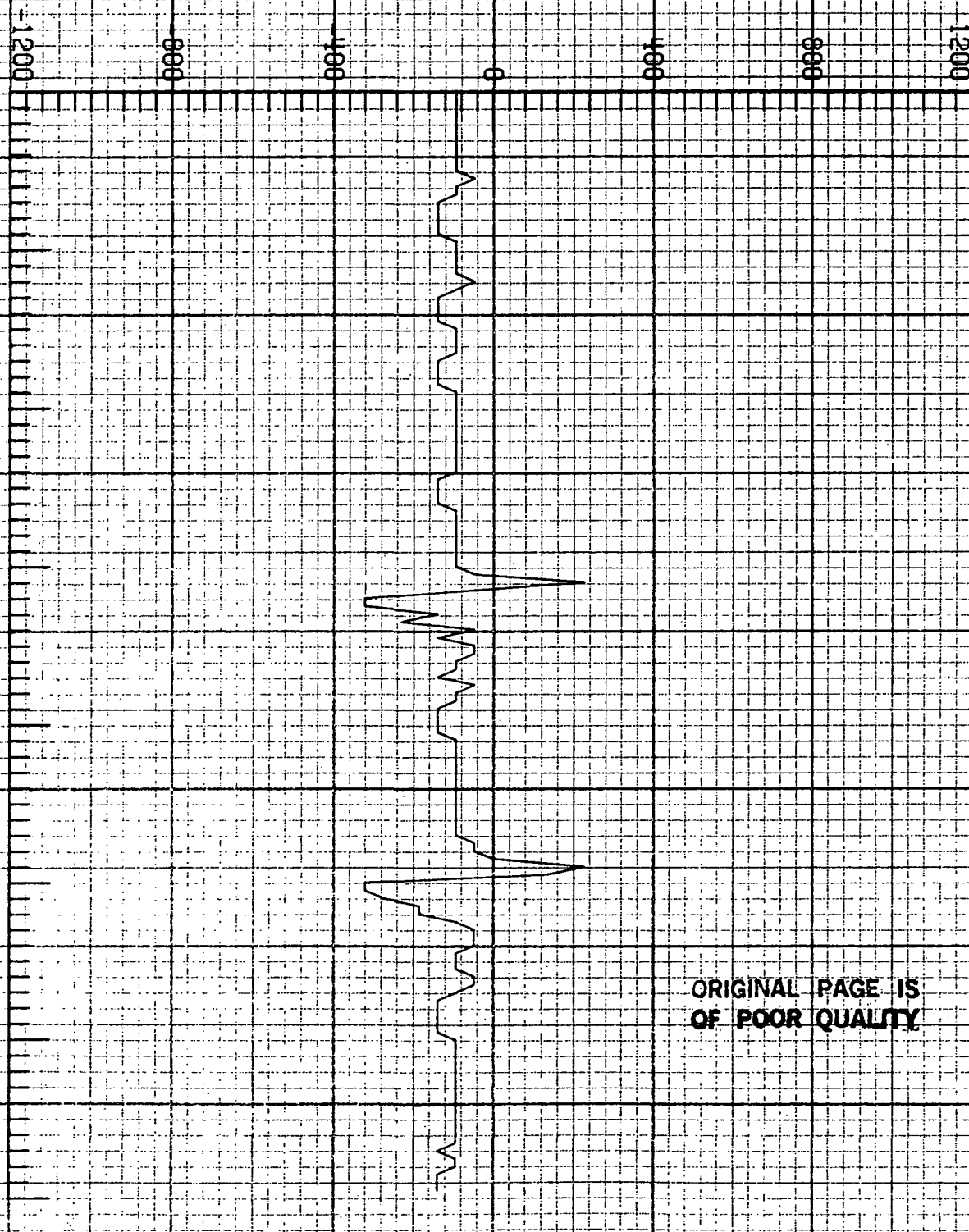
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TEST NO. 83-02

RUN NO. 4

S-004

B DOT L T/S



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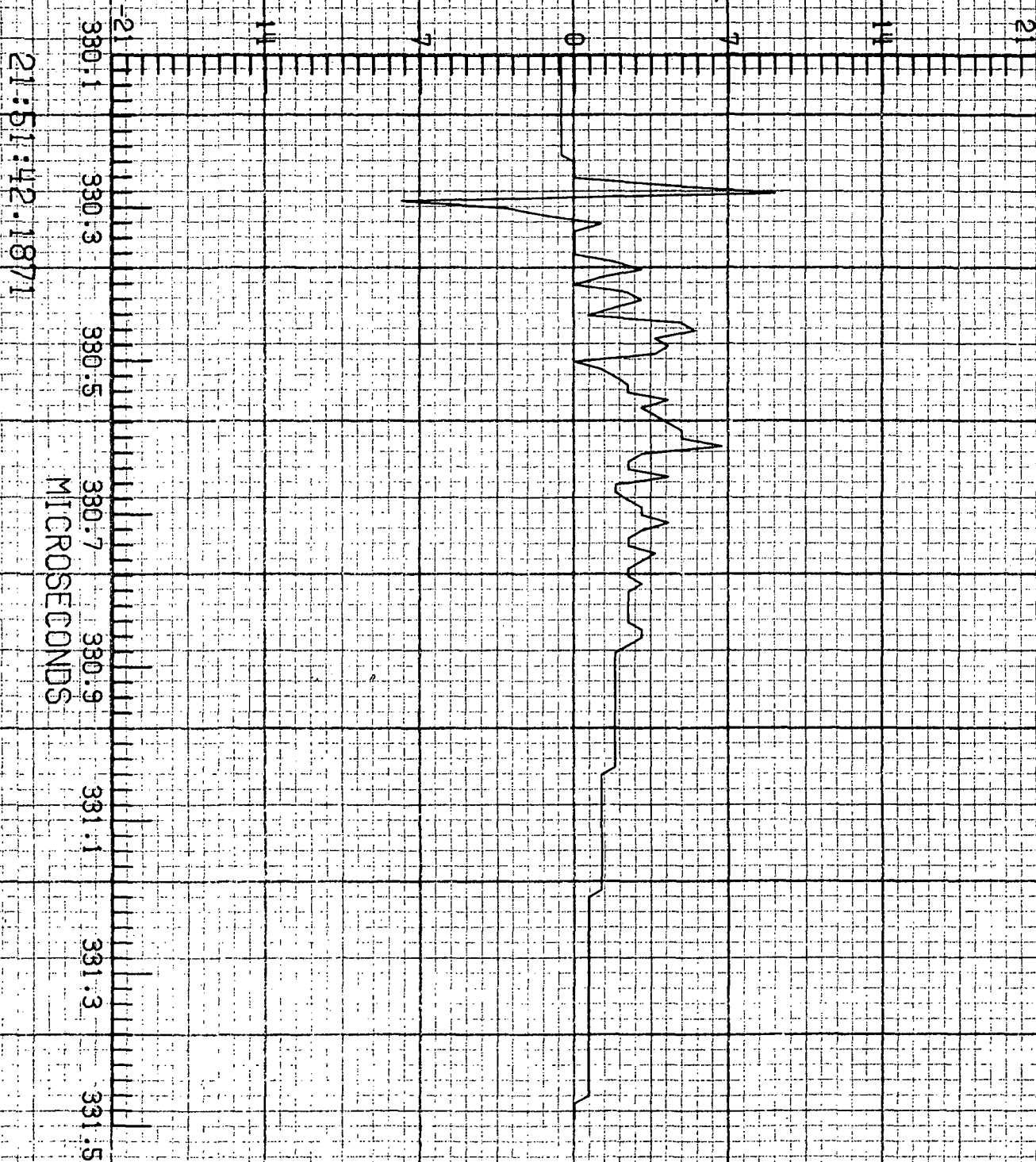
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TEST NO. 83-02

RUN NO. 5

S-005

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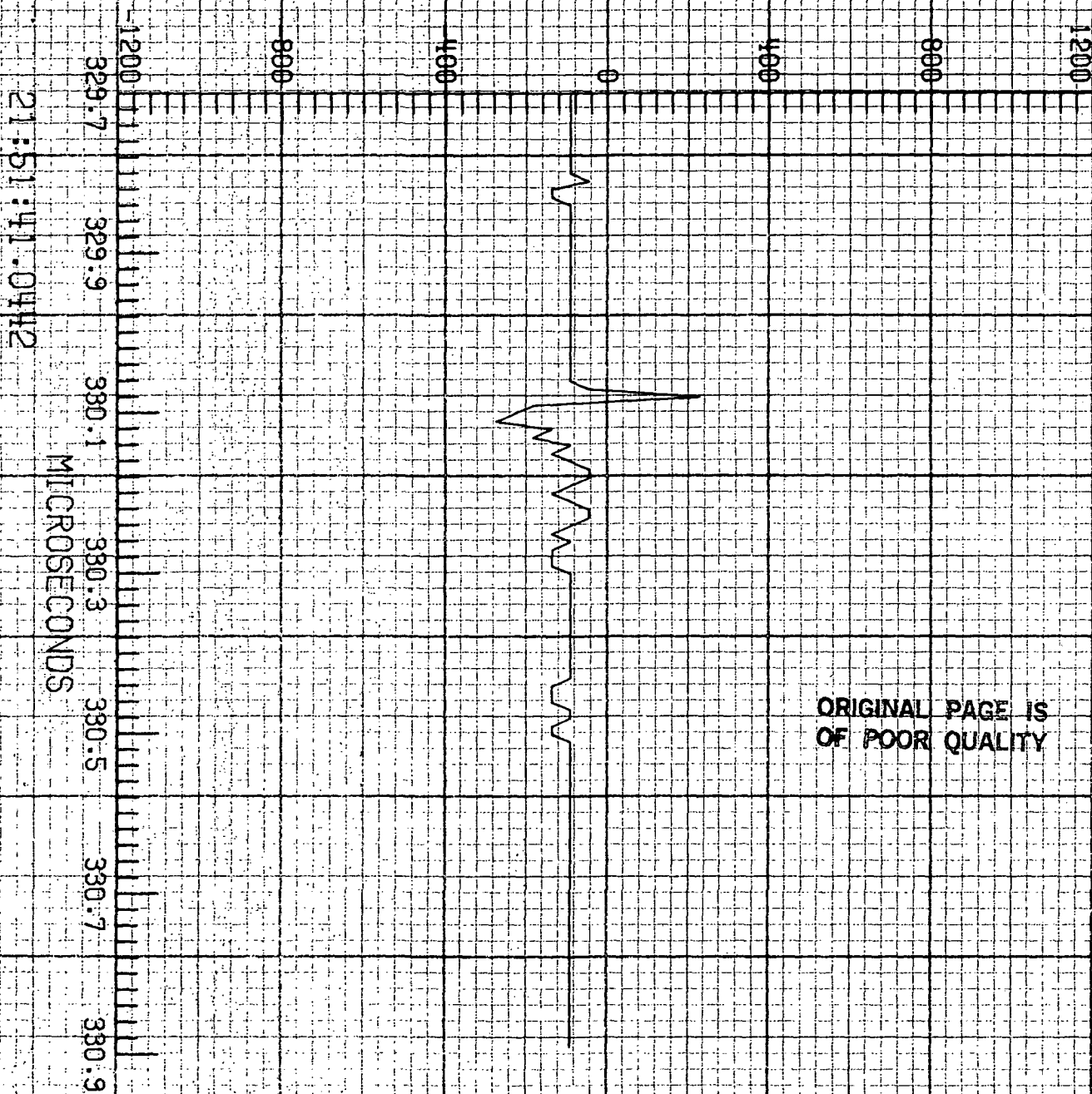
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TEST NO. 83-02

RUN NO. 5

N-002

B DOT L T/S



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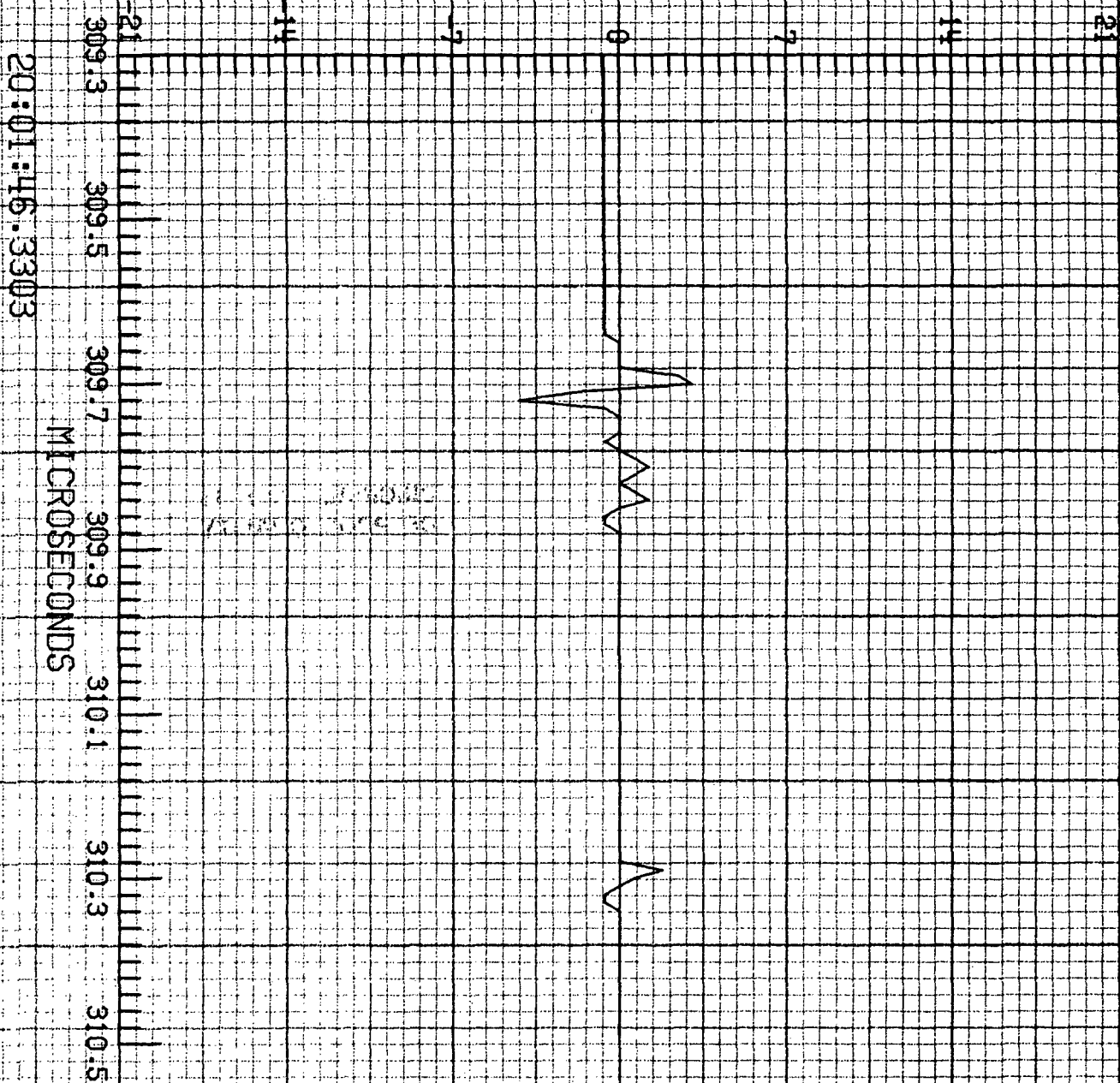
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TEST NO. 83-02

RUN NO. 4

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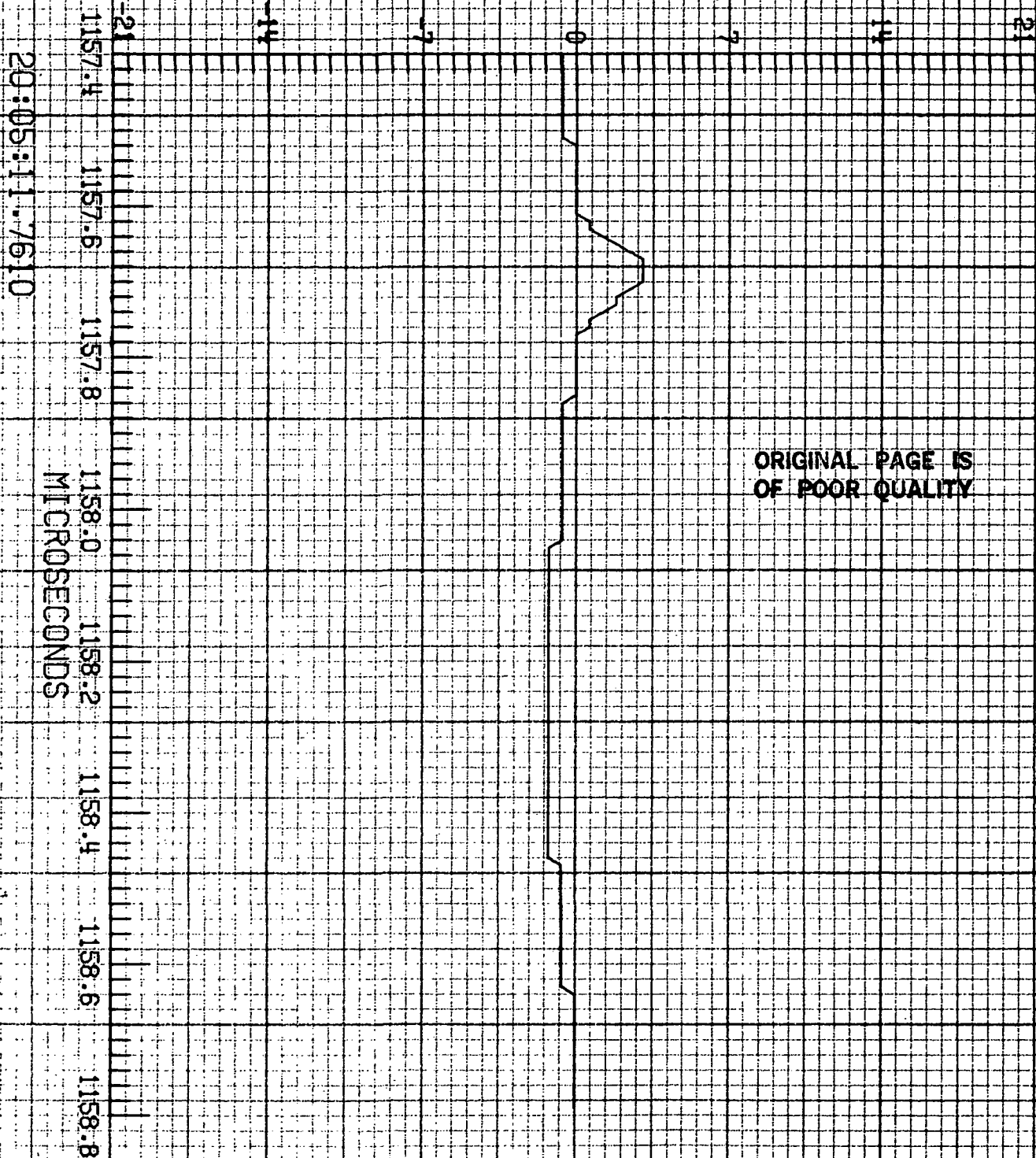
D DOT FWD A/m^2



F106 LIGHTNING/TK.8/M.THOMAS
RUN NO. 5 S-001

TEST NO. 83-02

D DOT FWD A/m^2

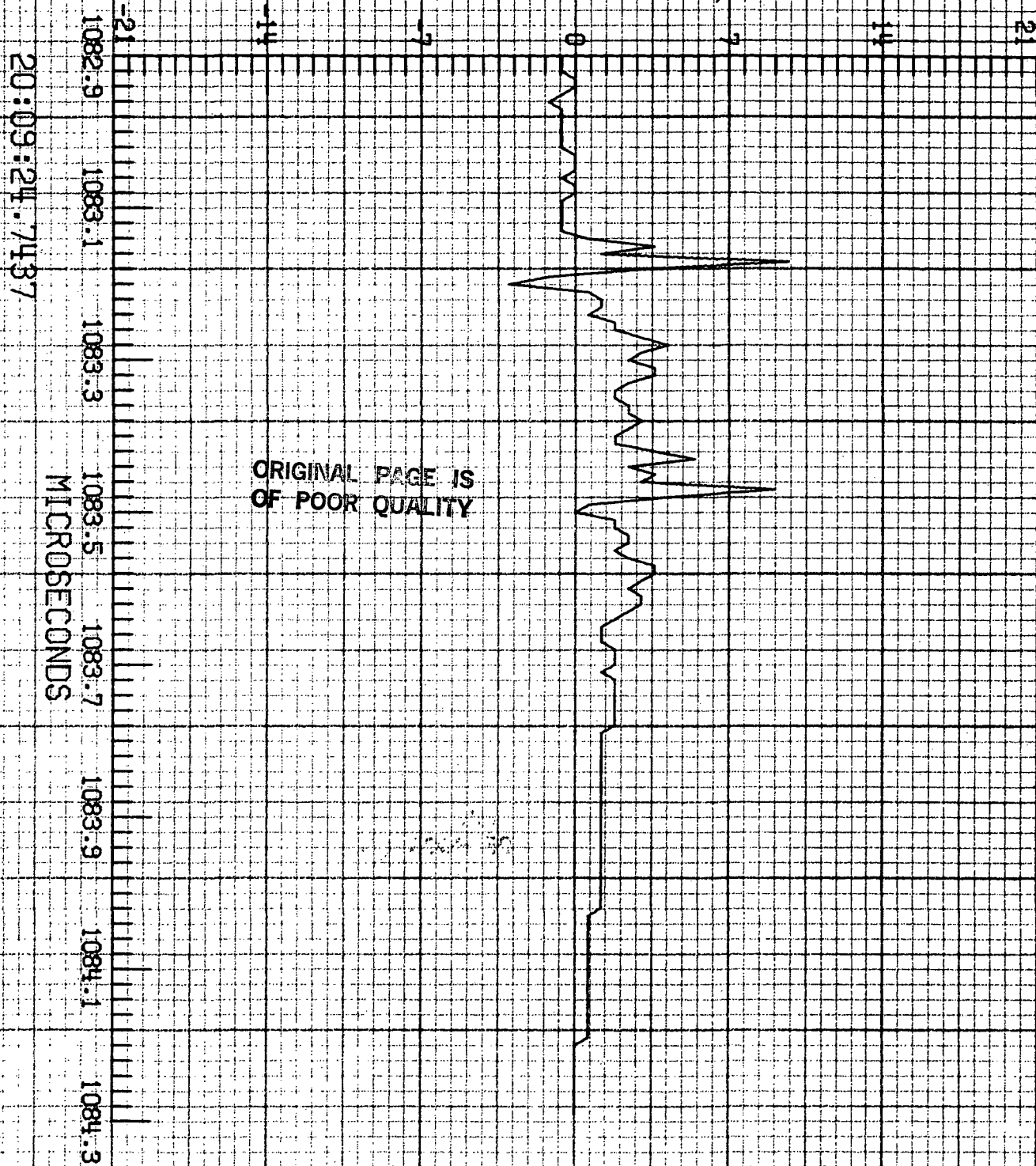


F106 LIGHTNING/TK.8/M.THOMAS
RUN NO. 6

S-002

TEST NO. 83-02

D DOT FWD A/m^2



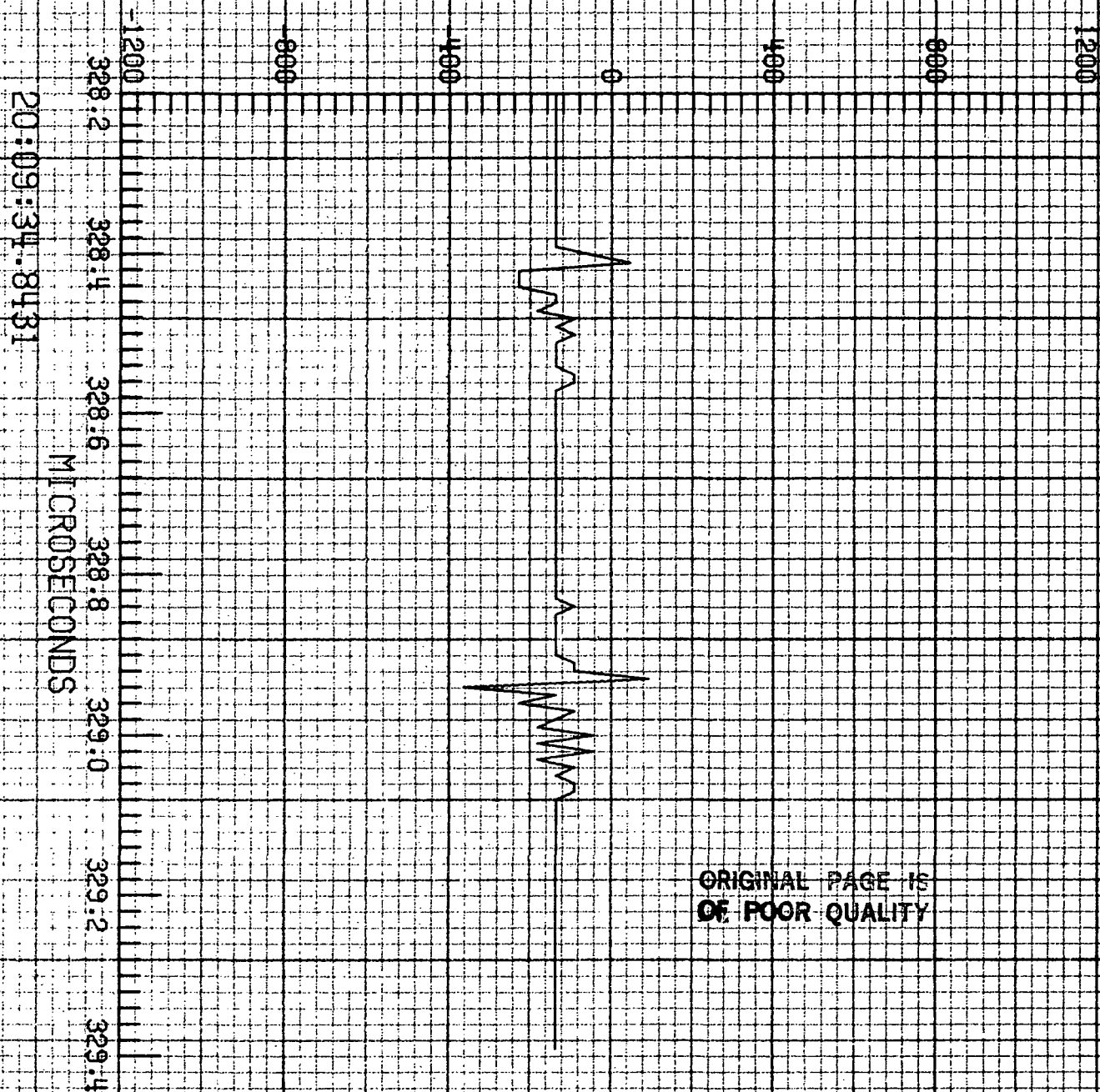
F-106 LIGHTNING/M. THOMAS

TEST NO. 83-02

RUN NO. 7

S=003

B DOT L T/S



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F106 LIGHTNING/TK.8/M.THOMAS

TEST NO. 83-02

RUN NO. 8

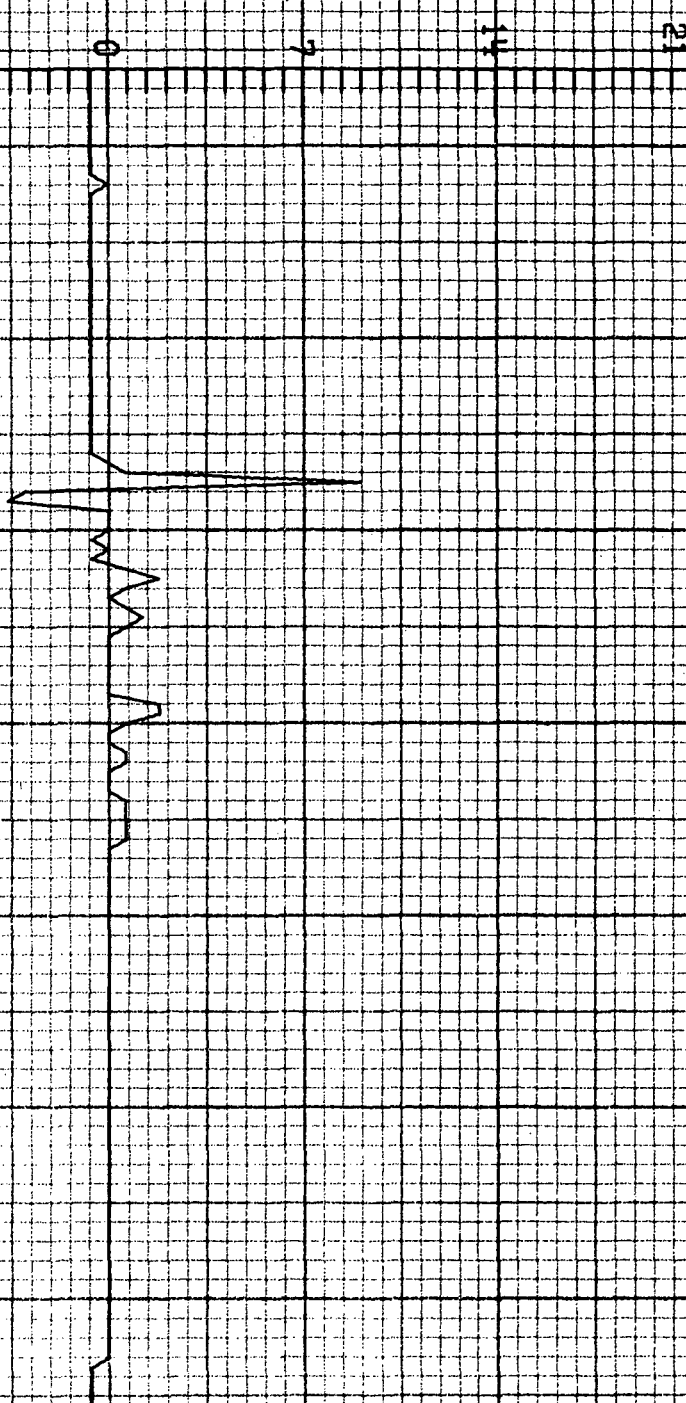
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D DOT FWD A/m^2

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MICROSECONDS

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F-106 LIGHTNING/M. THOMAS

TEST NO. 83-02

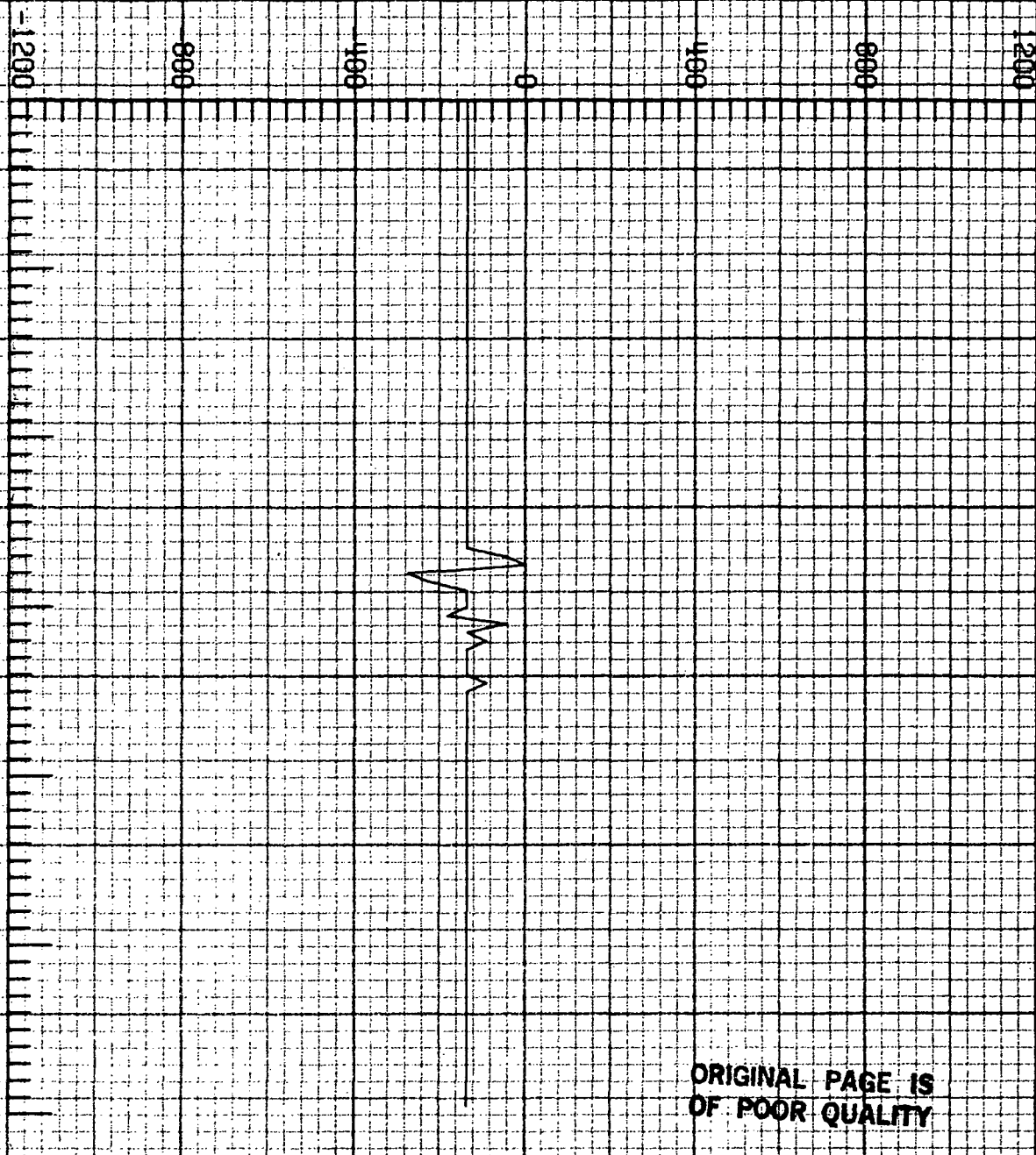
RUN NO. 8

S-004

B DOT IL T/S

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F-106 LIGHTNING/M. THOMAS

TEST NO. 83-02

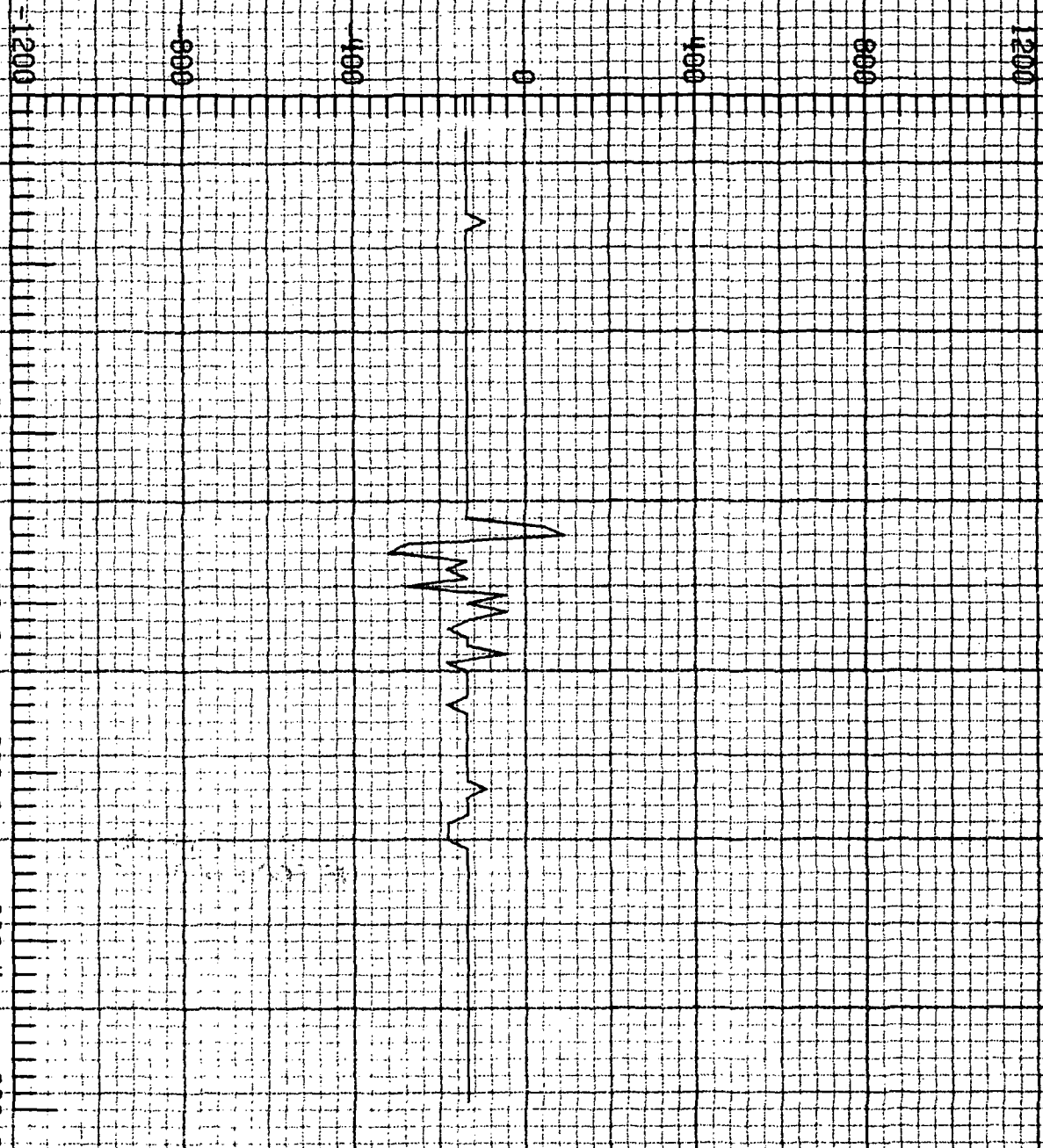
RUN NO. 9

N-006

B DOT L T/S

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MICROSECONDS



F-106 LIGHTNING/M. THOMAS
RUN NO. A1 N-001

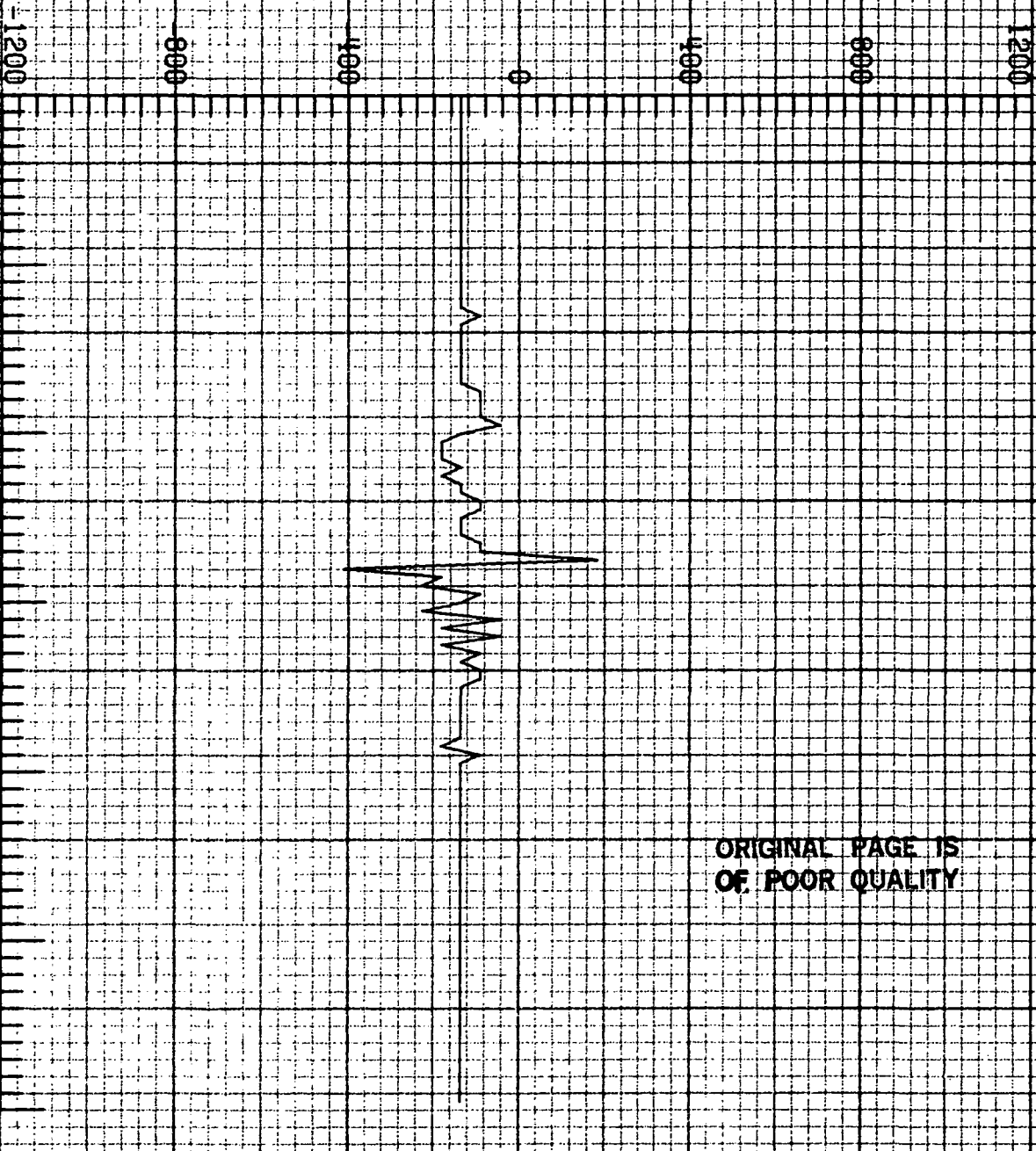
TEST NO. 83-02

B DOT L T/S

22:18:0.4531

MICROSECONDS

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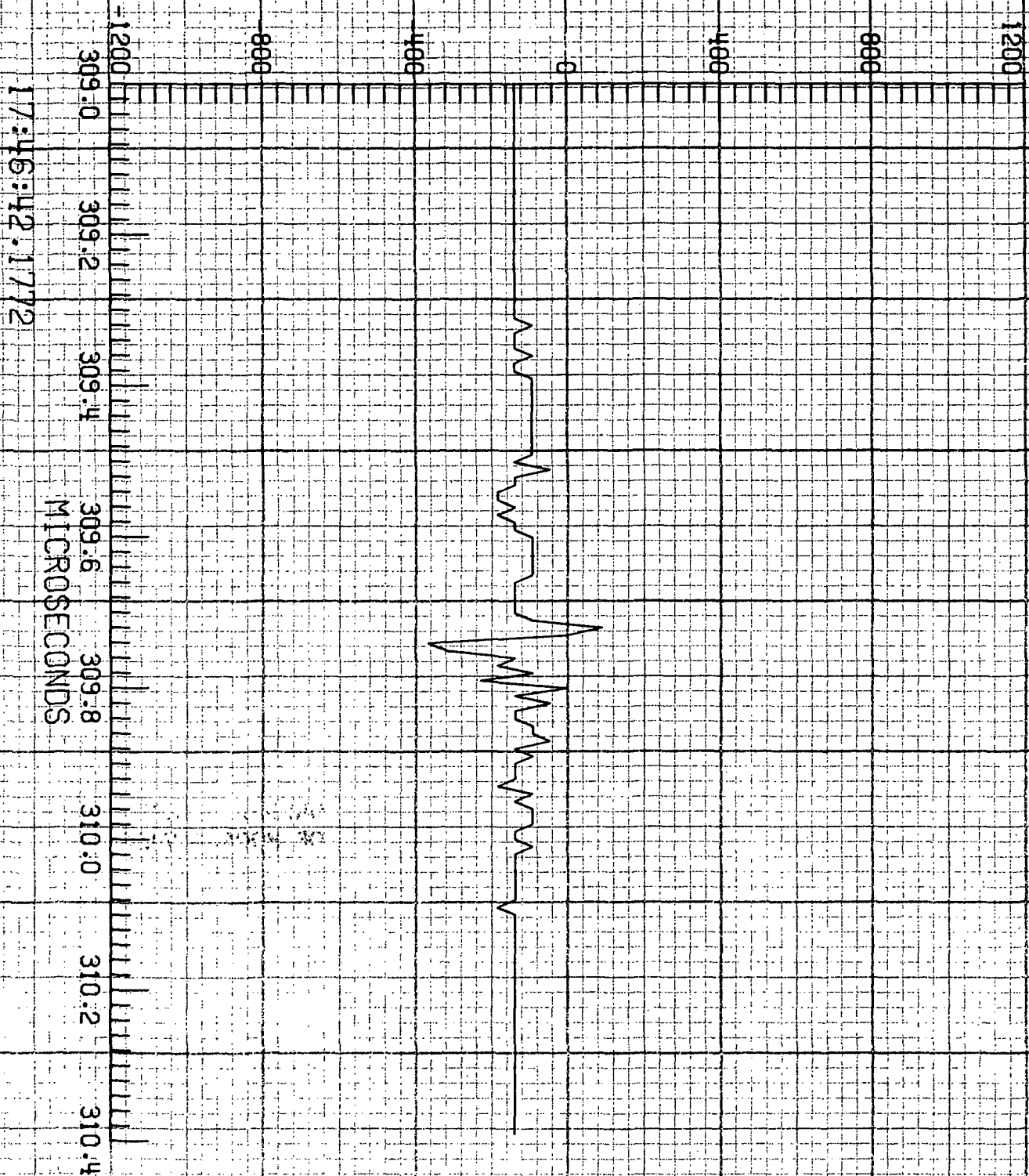
F106 LIGHTNING TK 10/THOMAS

TEST NO. 83-02

RUN NO. 1

N-001

B DOT L T/S



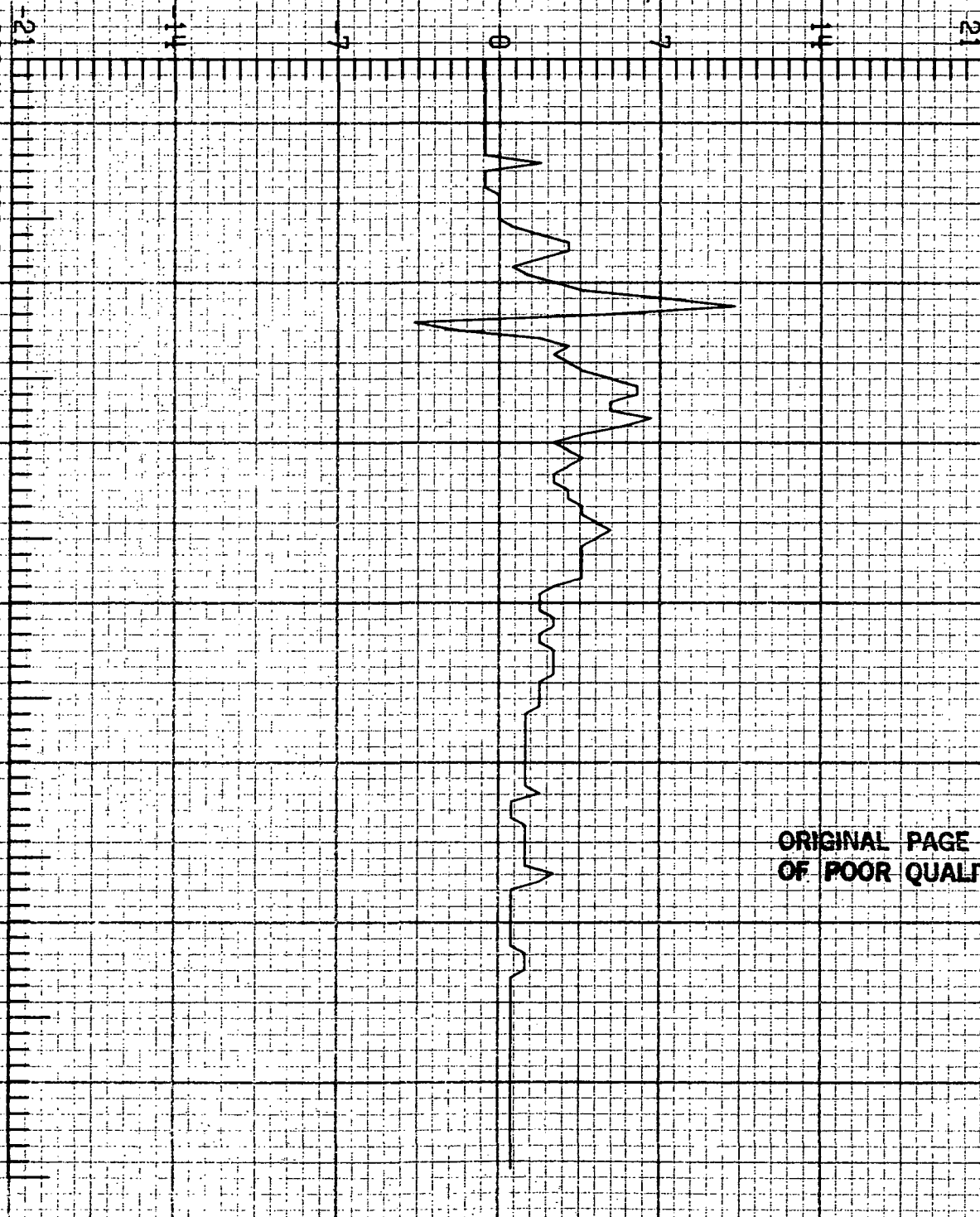
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TEST NO. 83-028

RUN NO. 1

N-002

D DOT FWD A/m^2



17:46:43.5919

MICROSECONDS

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F106 LIGHTNING/TK 8/THOMAS

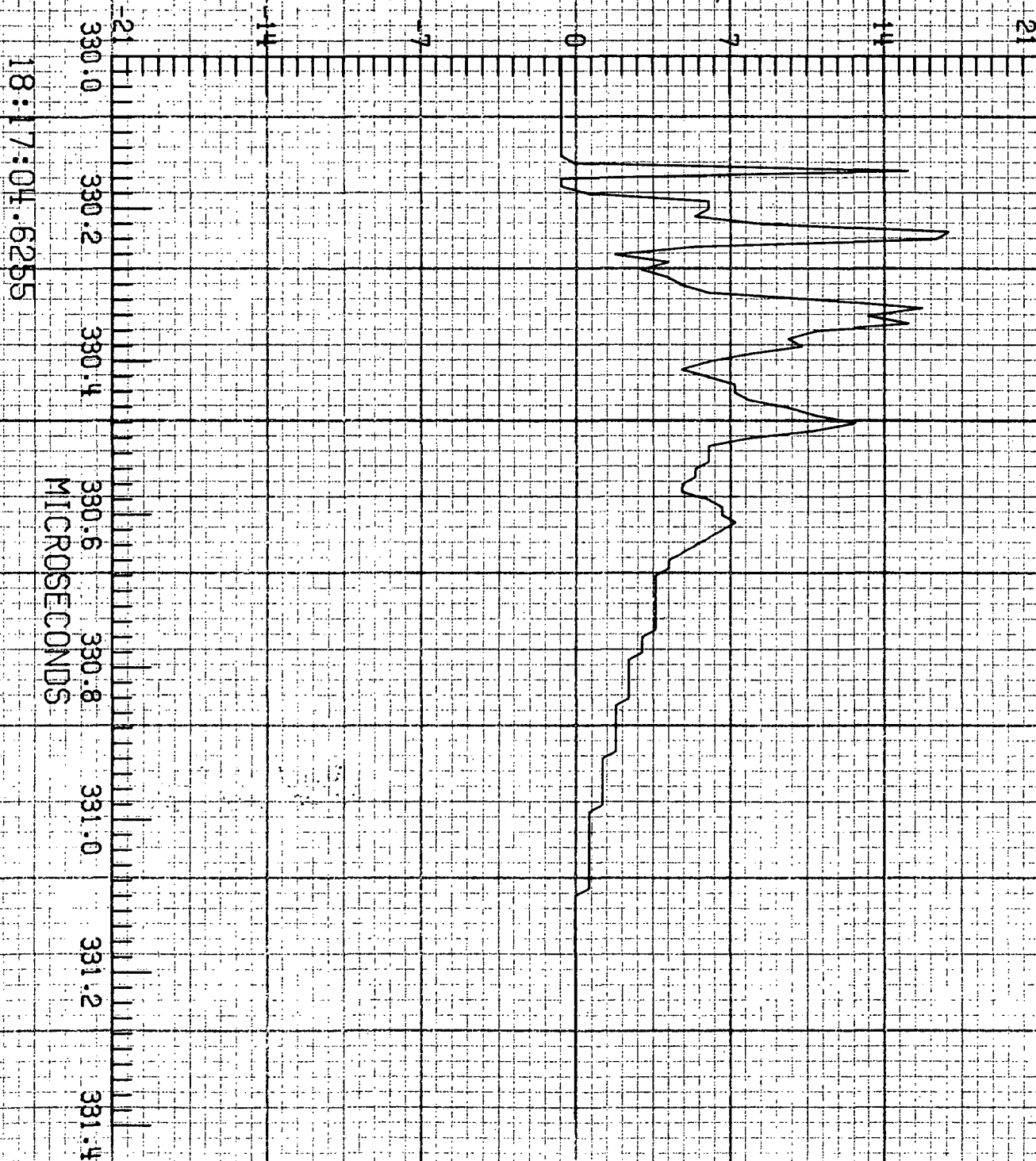
TEST NO. 83-028

RUN NO. 2

S-001

D DOT FWD

A/m²



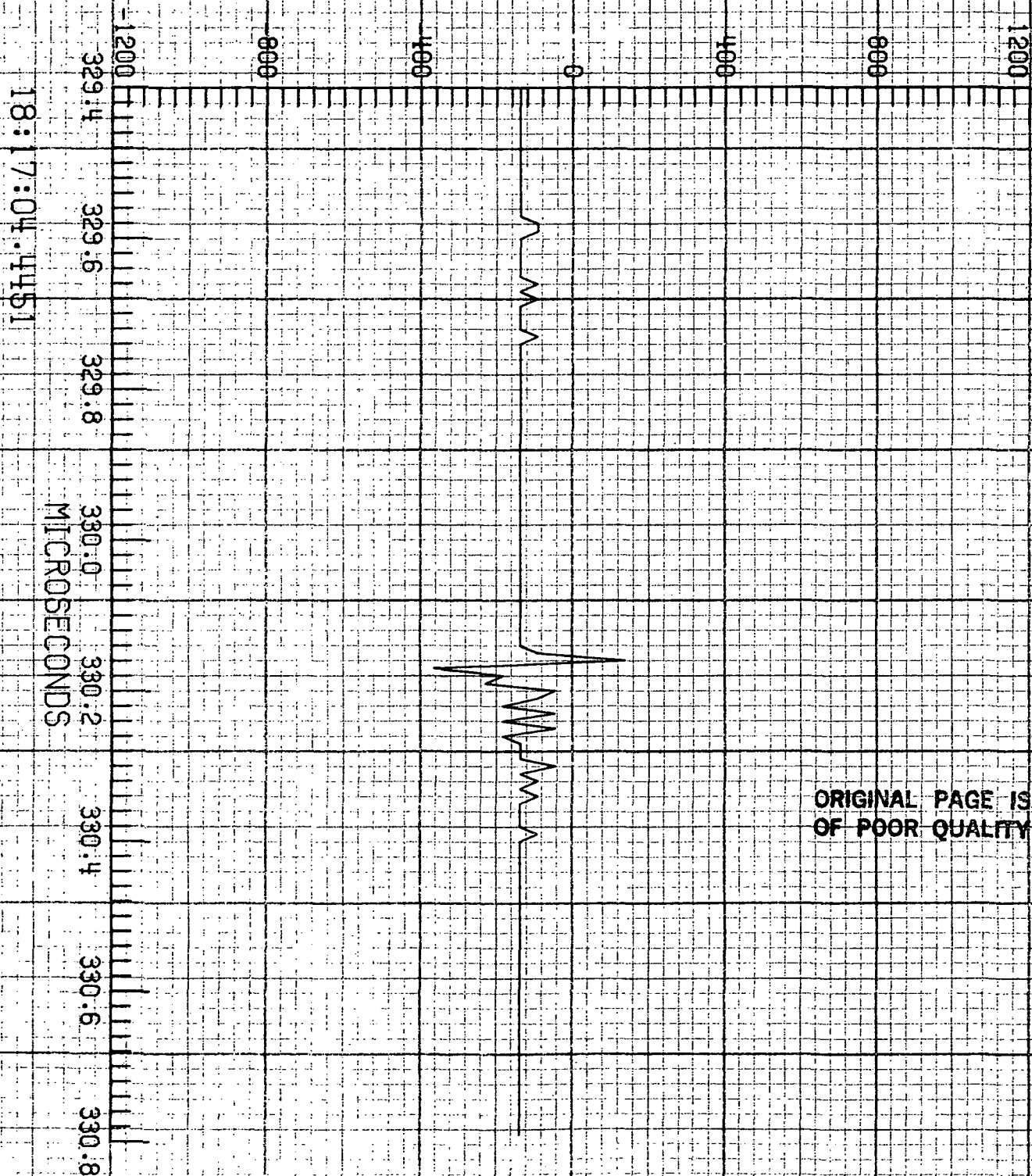
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TEST NO. 83-028

RUN NO. 2

S-001

B DOT L T/S



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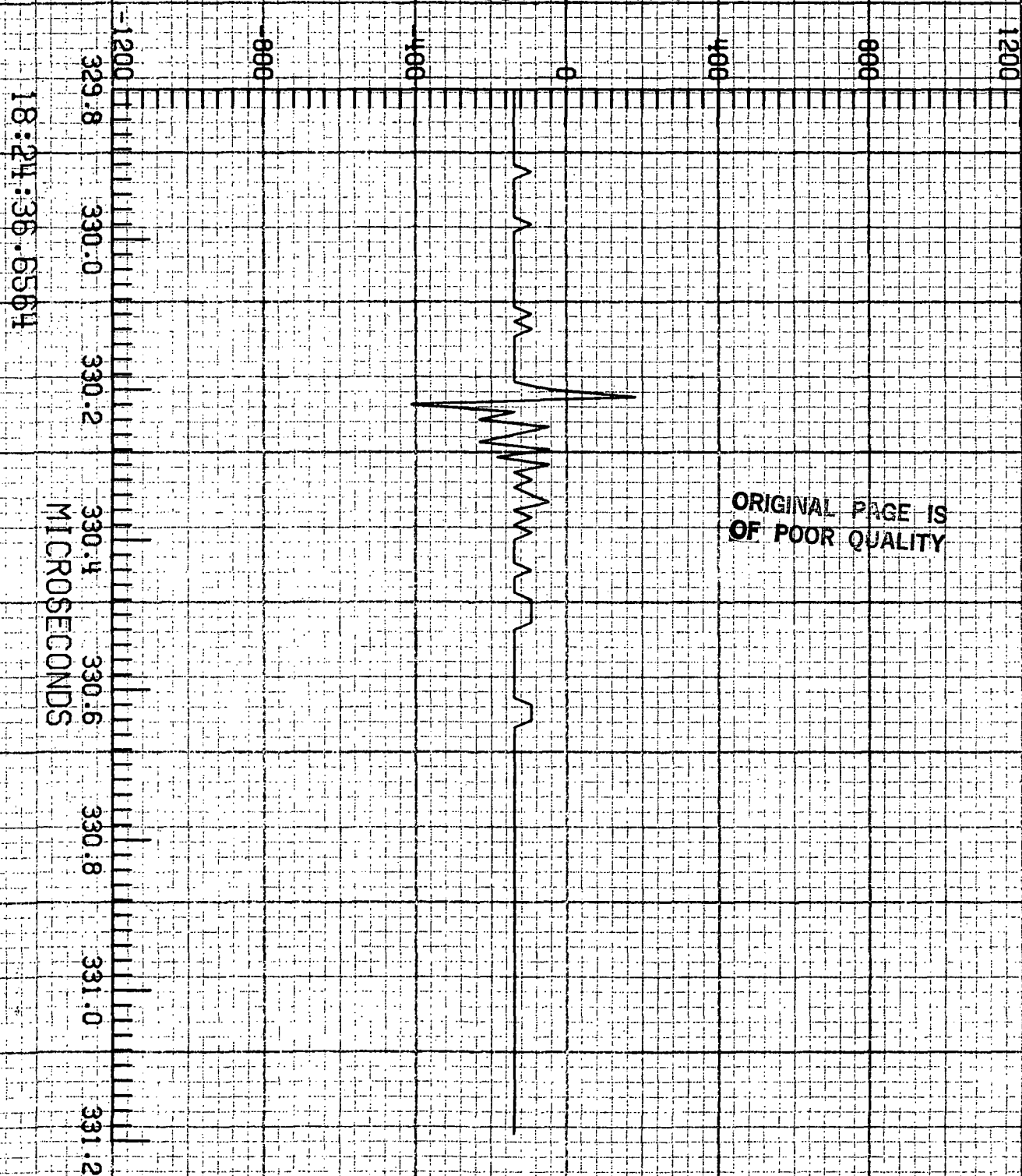
F106 LIGHTNING TK 10/THOMAS

TEST NO. 83-021

RUN NO. 8

N-003

B DOT L T/S



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F106 LIGHTNING TK 8/THOMAS
RUN NO. 1 N=001

TEST NO. 83-025

D DOT FWD A/m^2

21:31:38.1516

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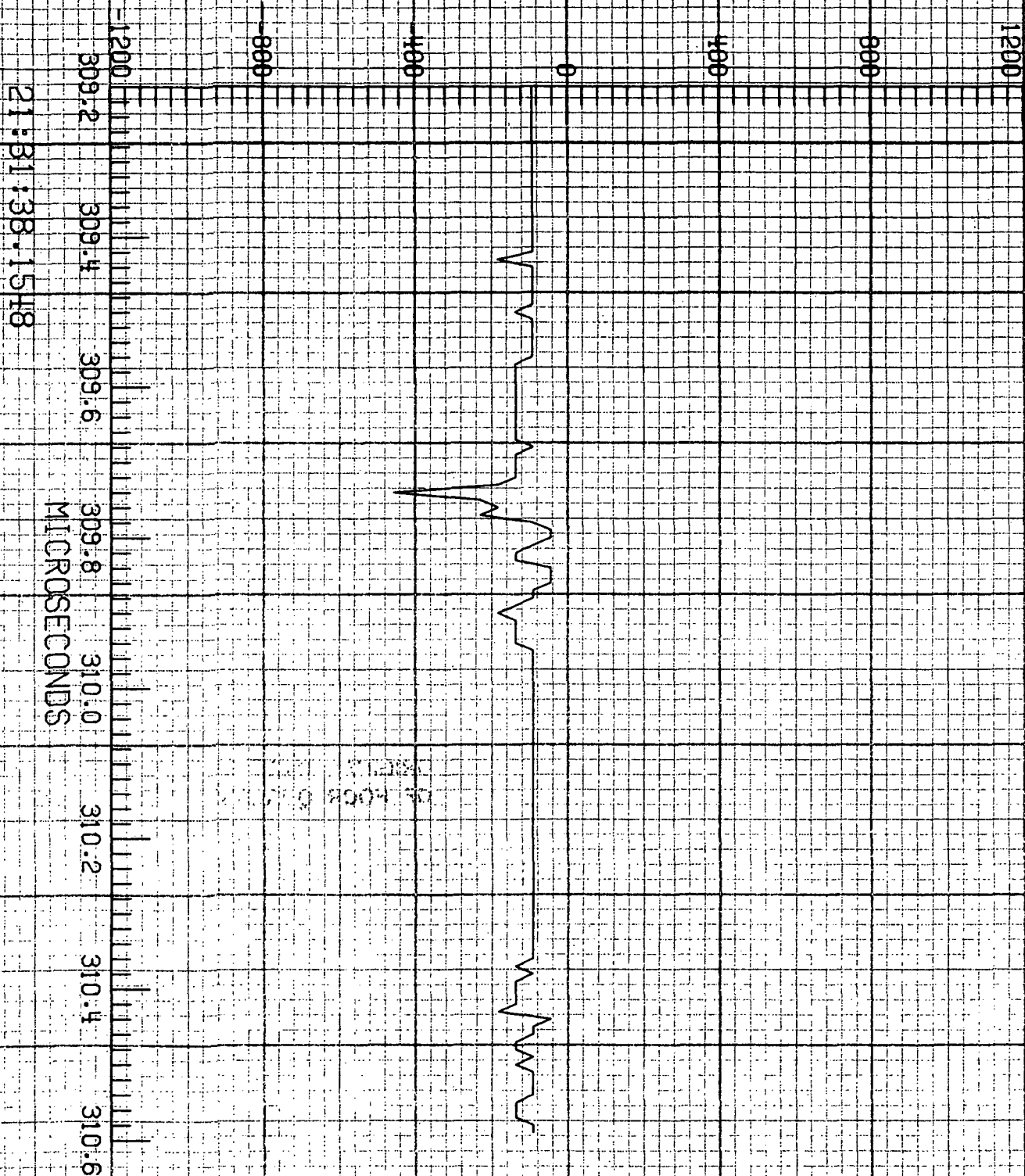
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TEST NO. 83-029

RUN NO. 1

N-001

B DOT L T/S



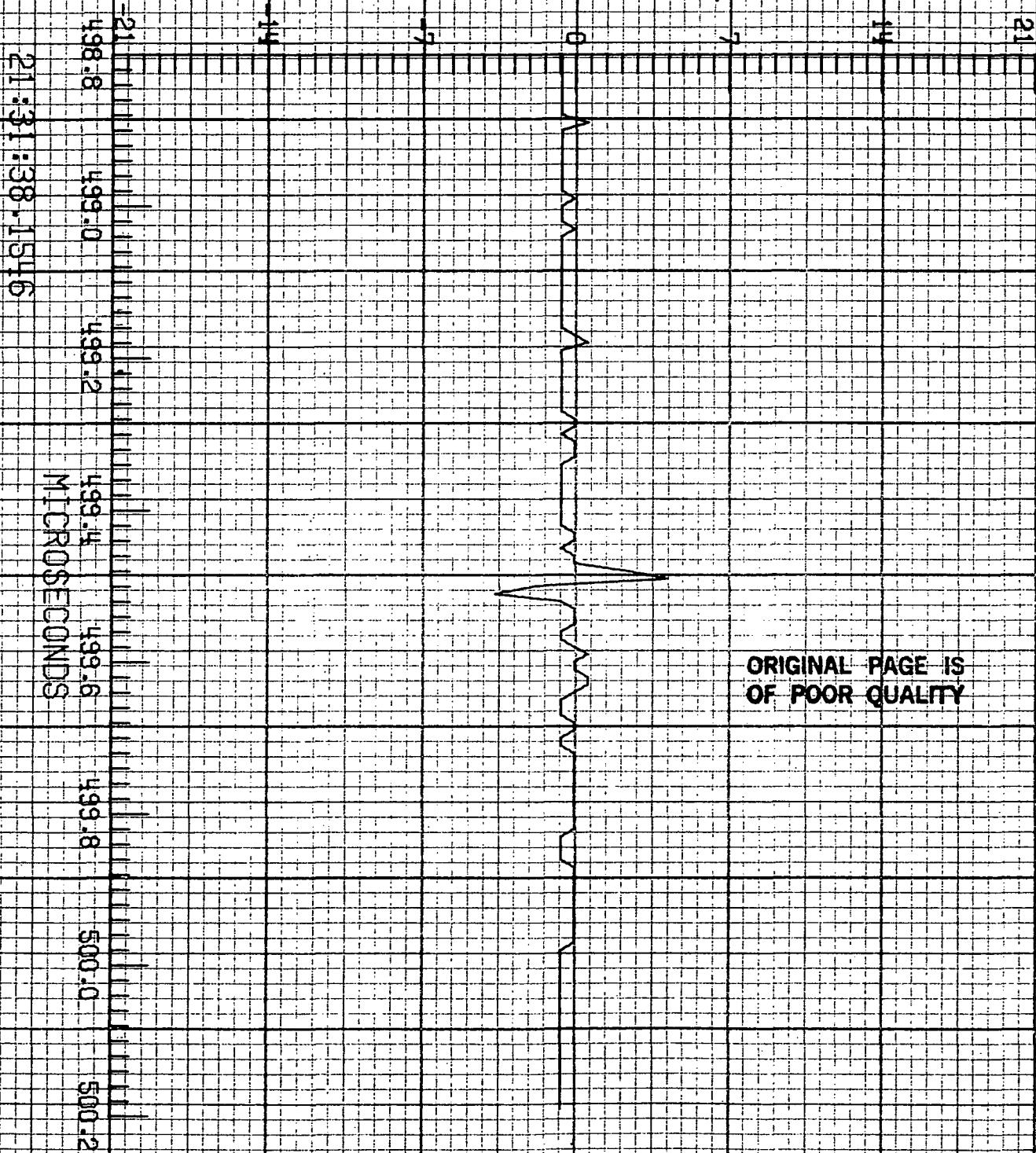
F106 LIGHTNING TK 8/THOMAS

TEST NO. 83-02

RUN NO. 1

N-001

D DOT FWD A/m^2



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TEST NO. 83-029

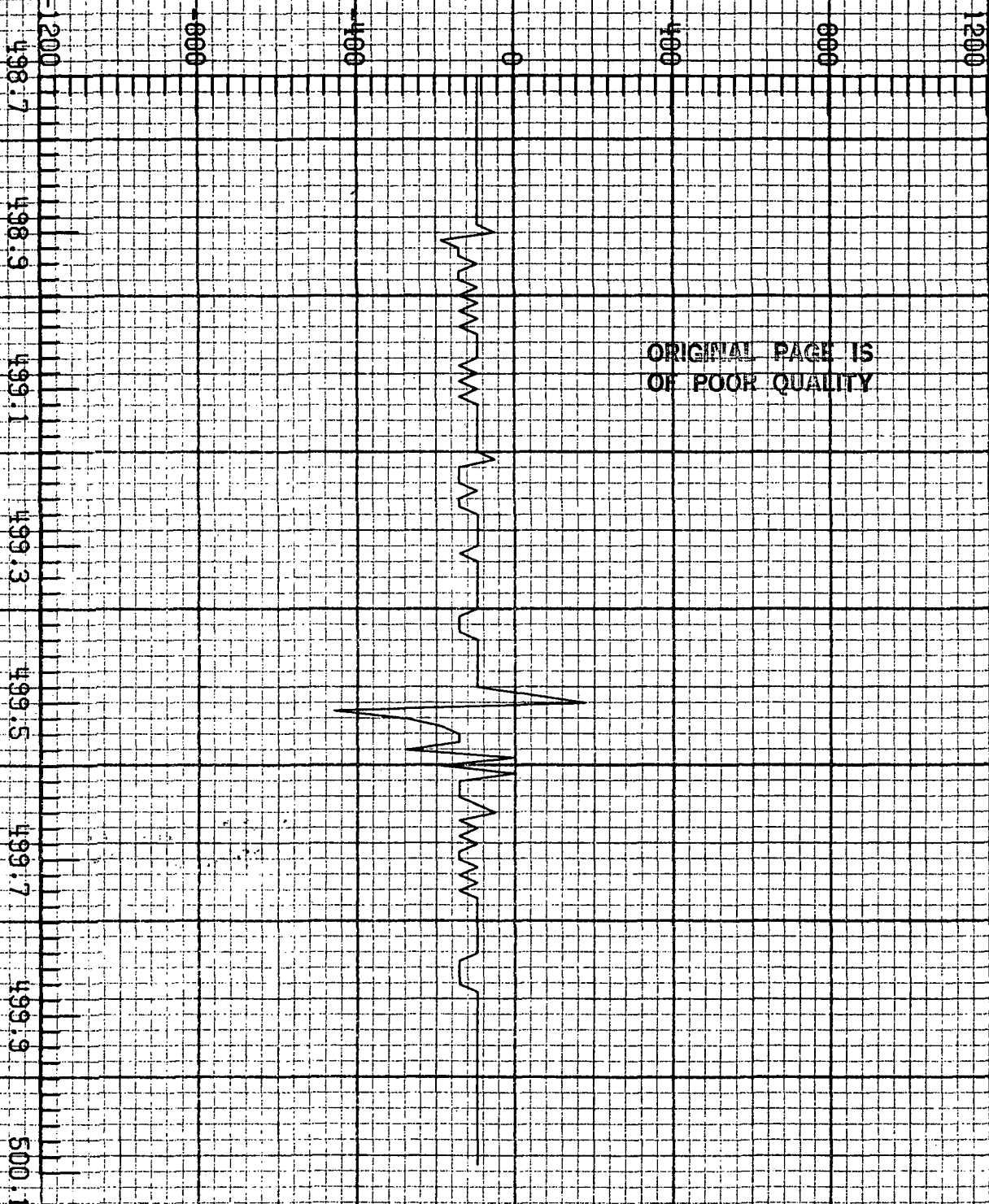
RUN NO. 1

N=001

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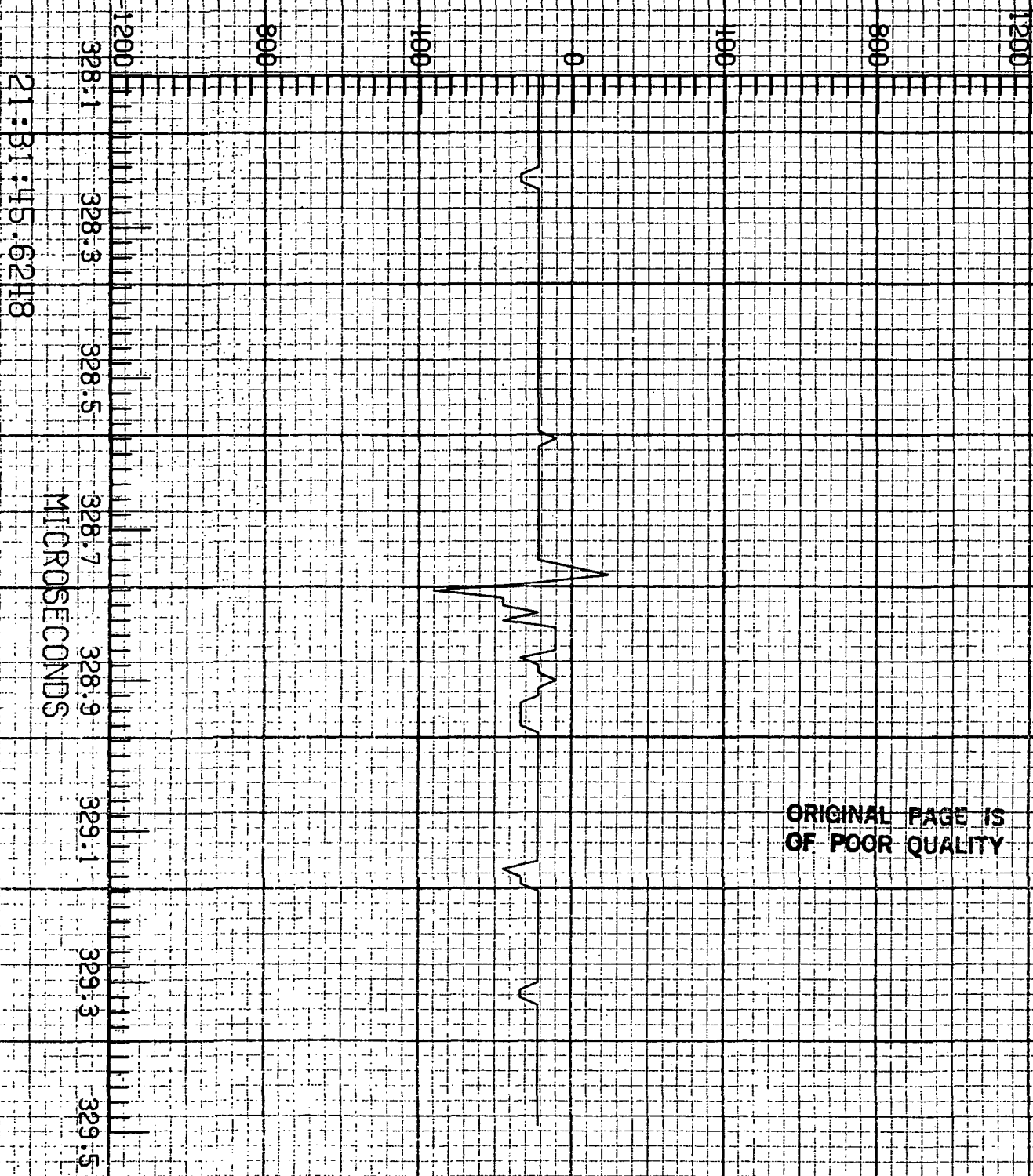
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TEST NO. 83-02

RUN NO. 2

N-002

B DOT L T/S



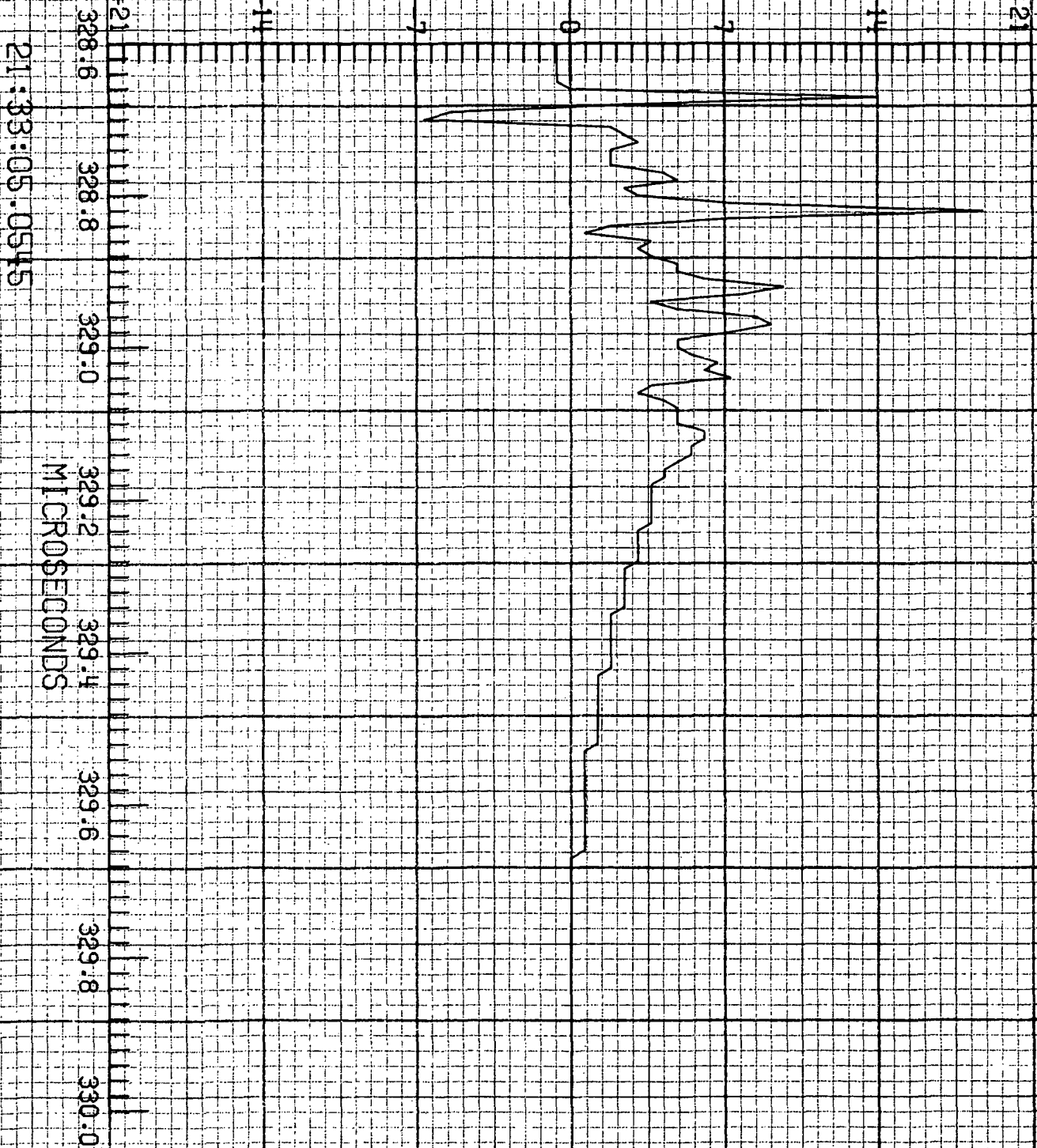
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F106 LIGHTNING TK 8/THOMAS
RUN NO. 3 S-001

TEST NO. 83-02

D DOT FWD A/m^2



F106 LIGHTNING/TK.10/M.THOMAS

TEST NO. 83-02

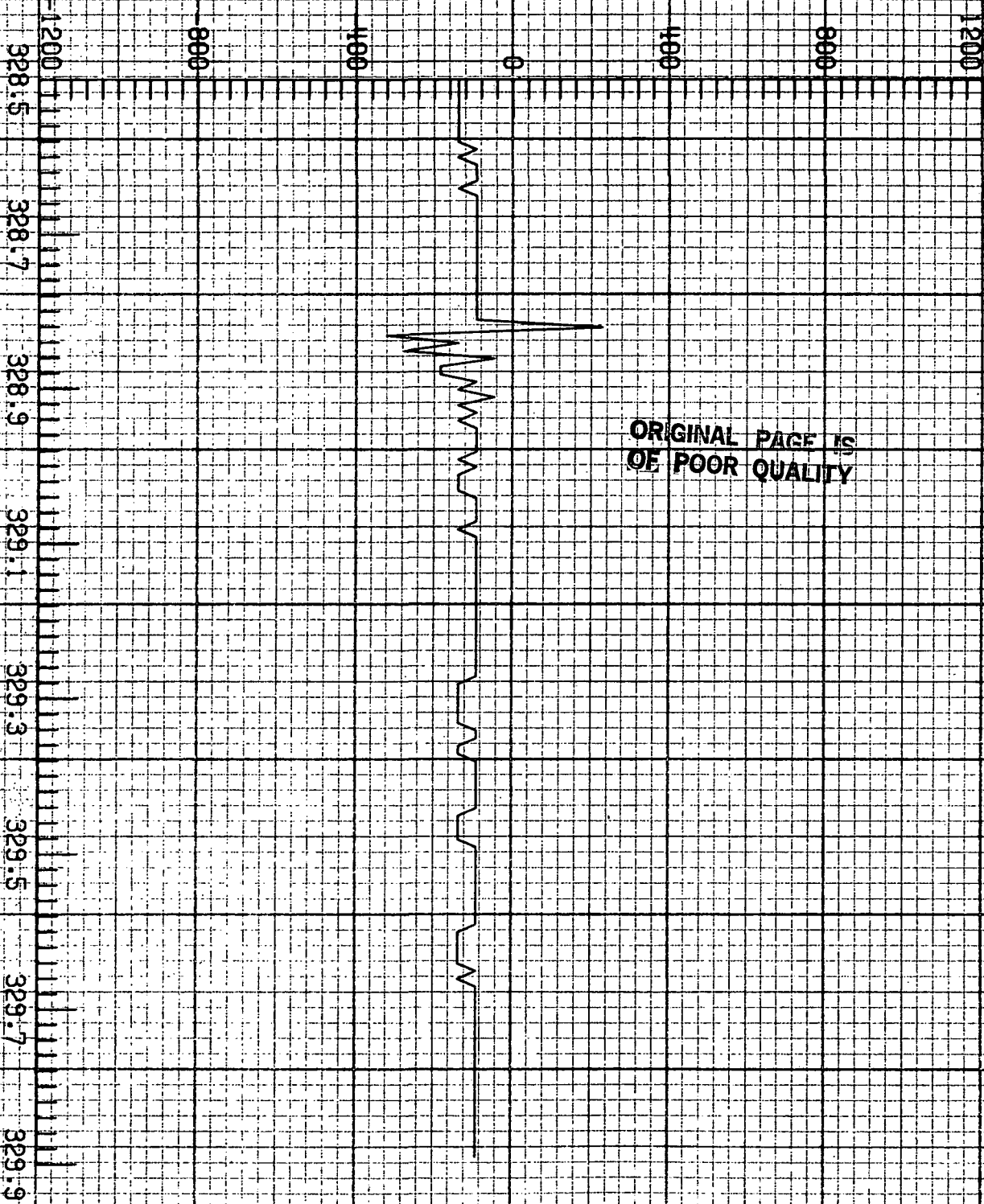
RUN NO. 3

S-001

B DOT 1 T/S

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MICROSECONDS



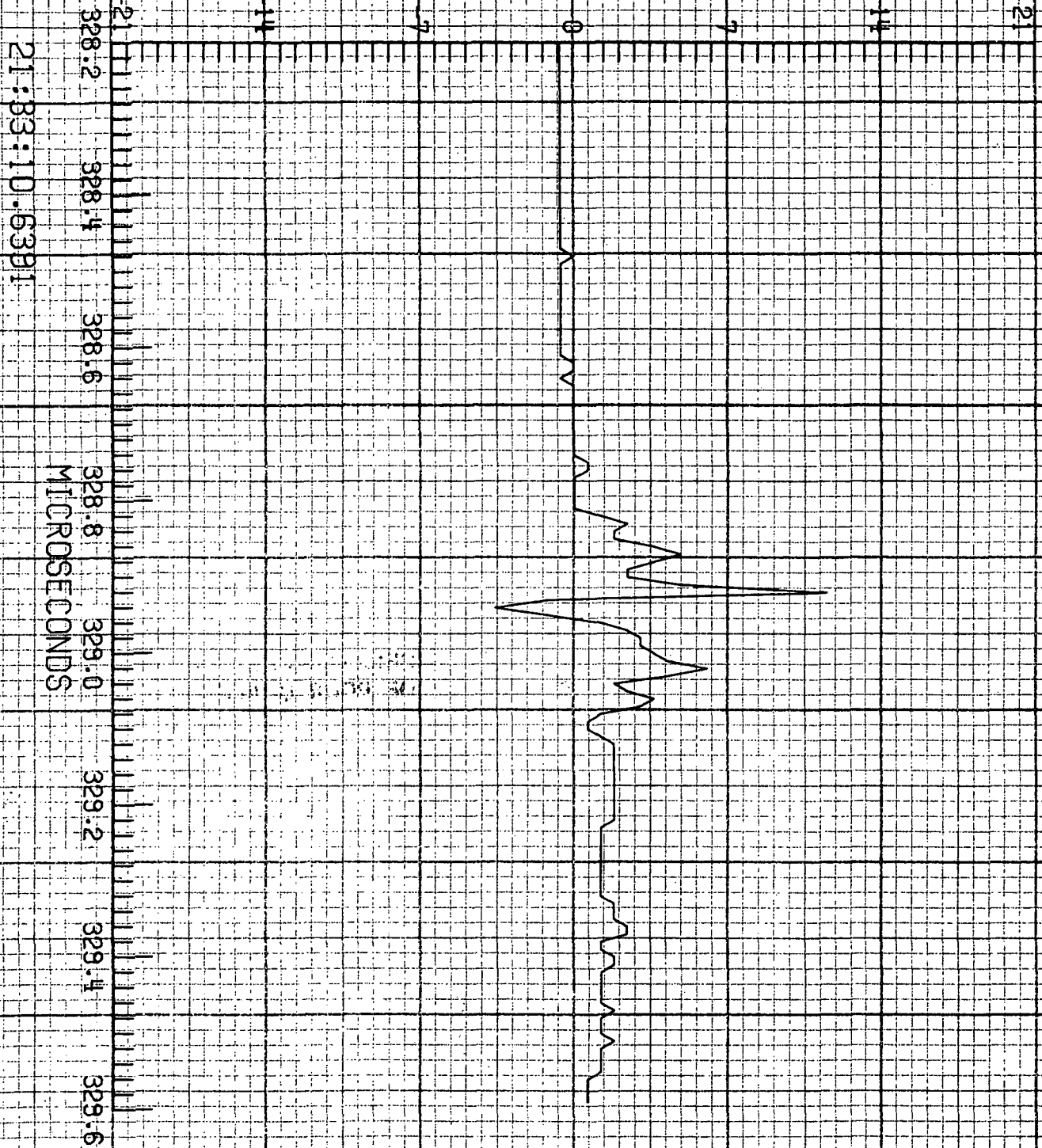
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F106 LIGHTNING TK 8/THOMAS
RUN NO. 1 S-002

TEST NO. 83-02

D DOT FWD A/m^2



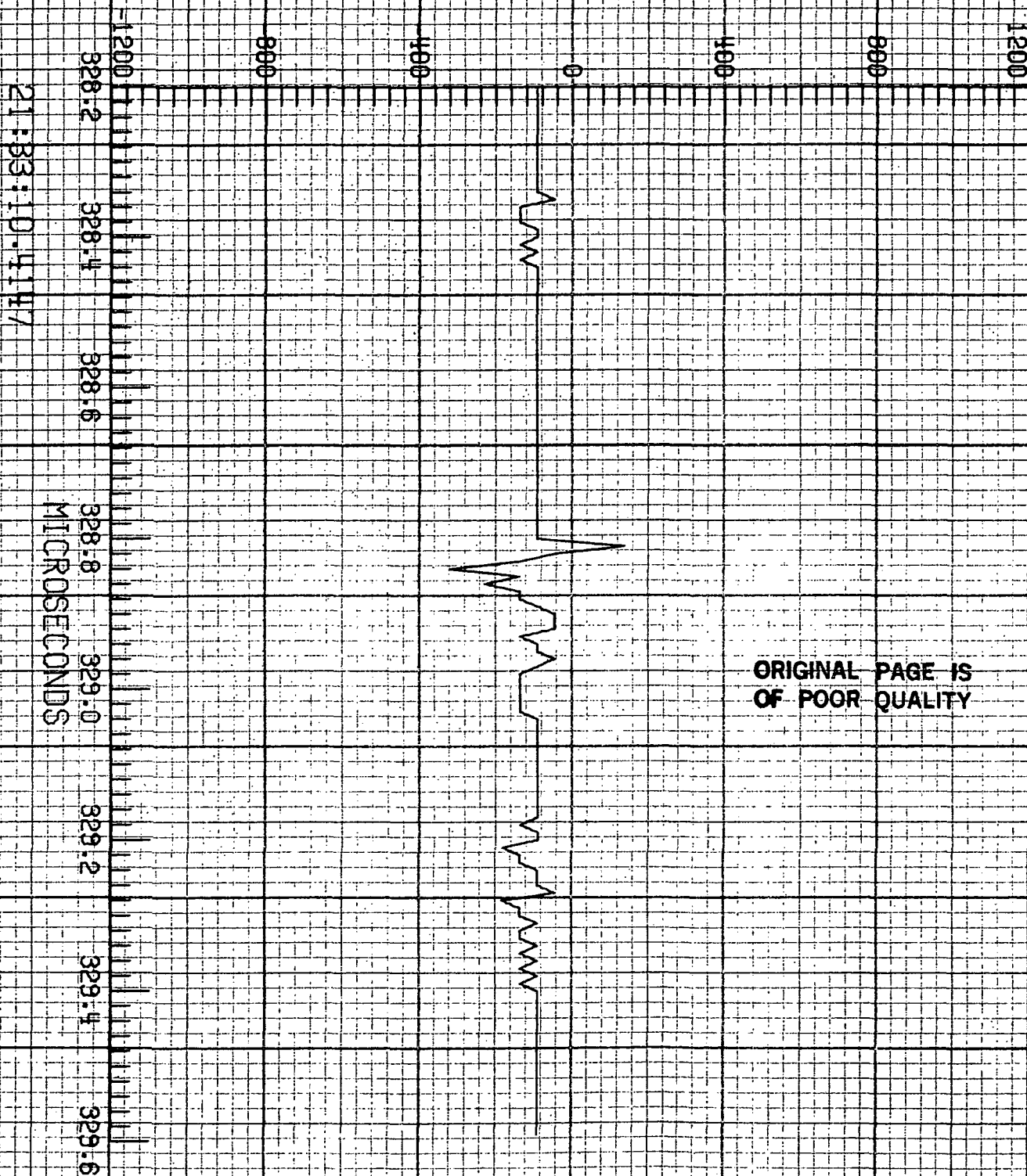
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TEST NO. 83-02

RUN NO. #

S-002

B DOT L T/S

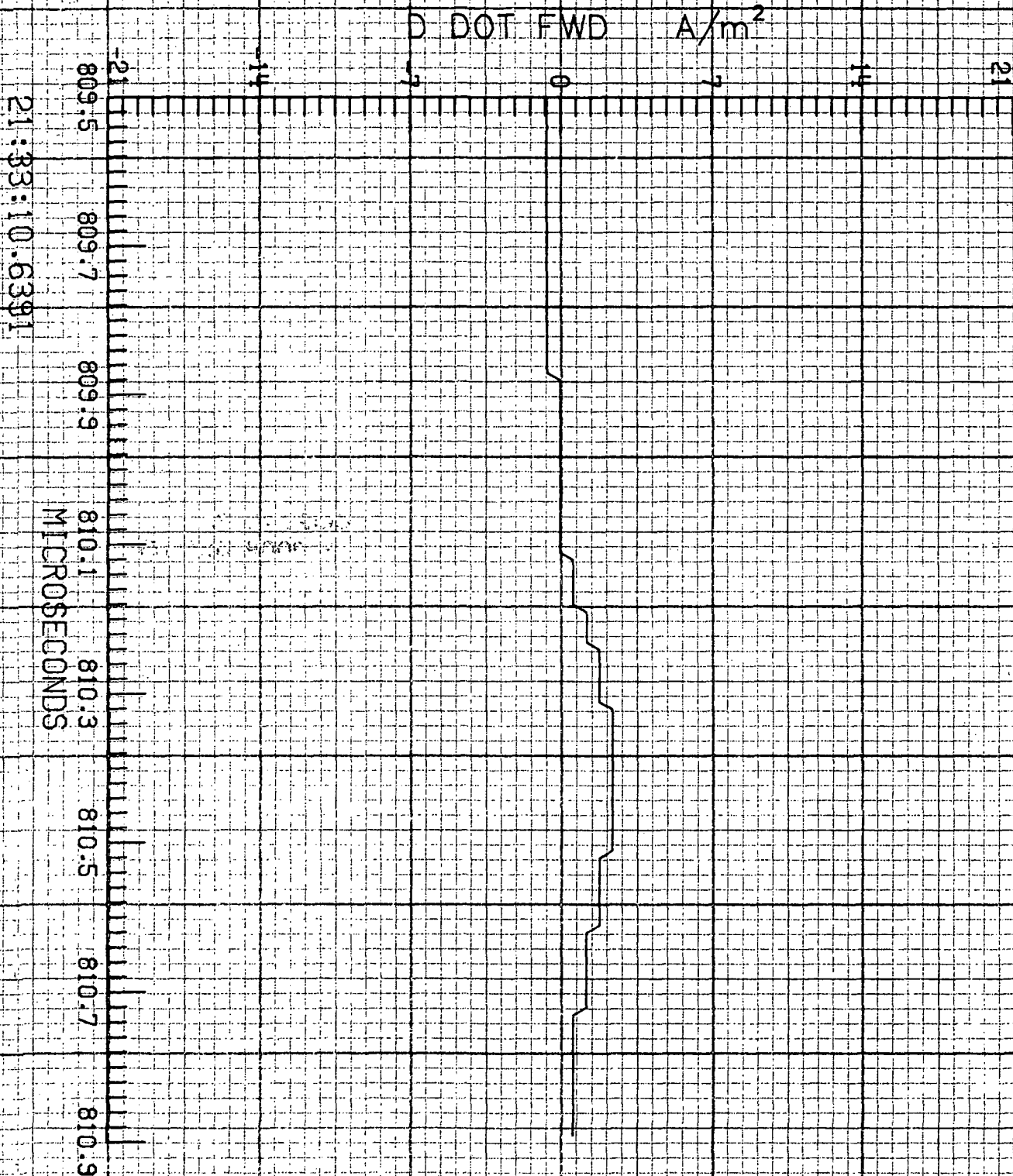


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F106 LIGHTNING TK 8/THOMAS
RUN NO. 4 S-002

TEST NO. 83-029



F106 LIGHTNING/TK.10/M.THOMAS

TEST NO. 83-02

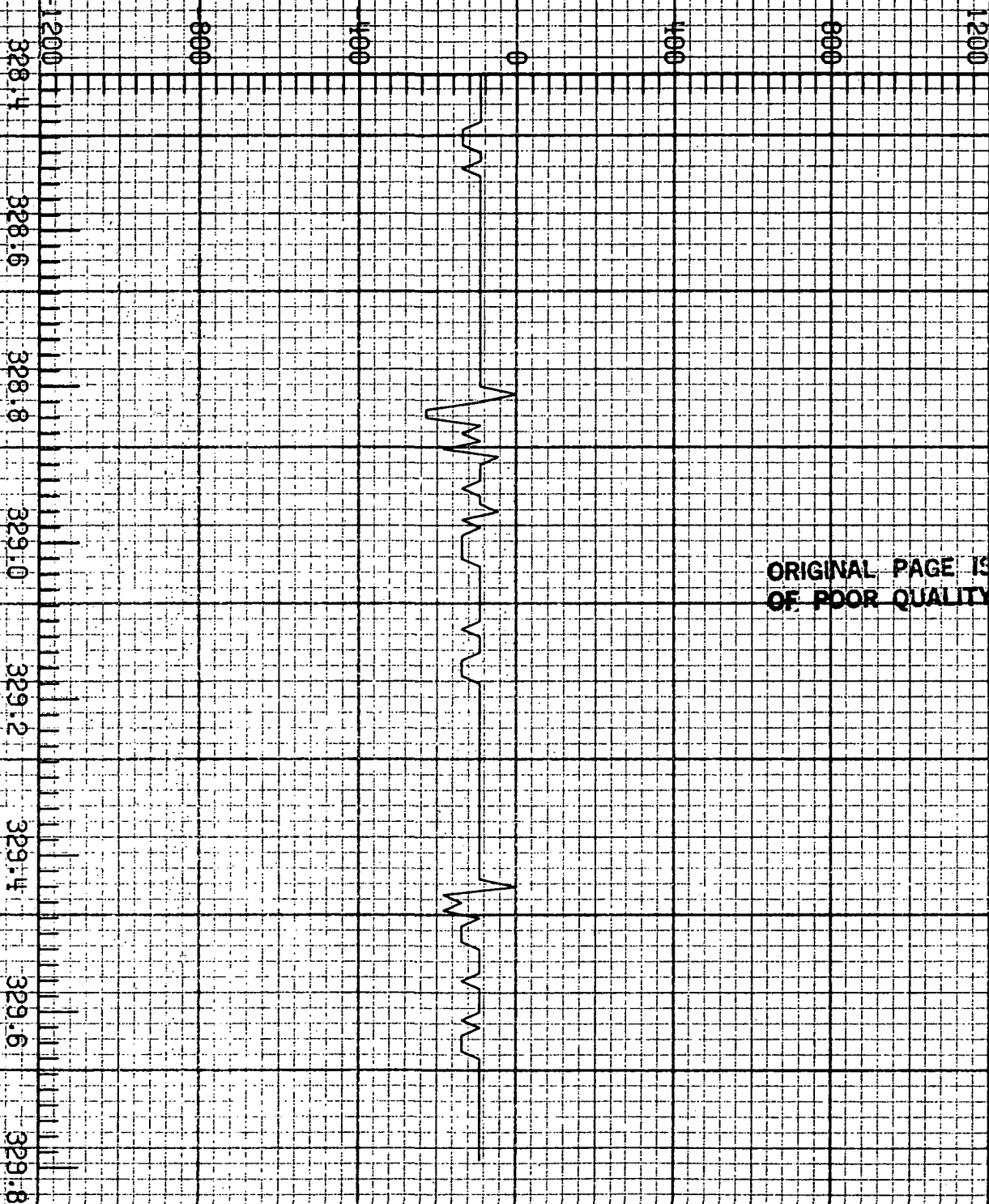
RUN NO. 5

S-003

B DOT L T/S

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MICROSECONDS



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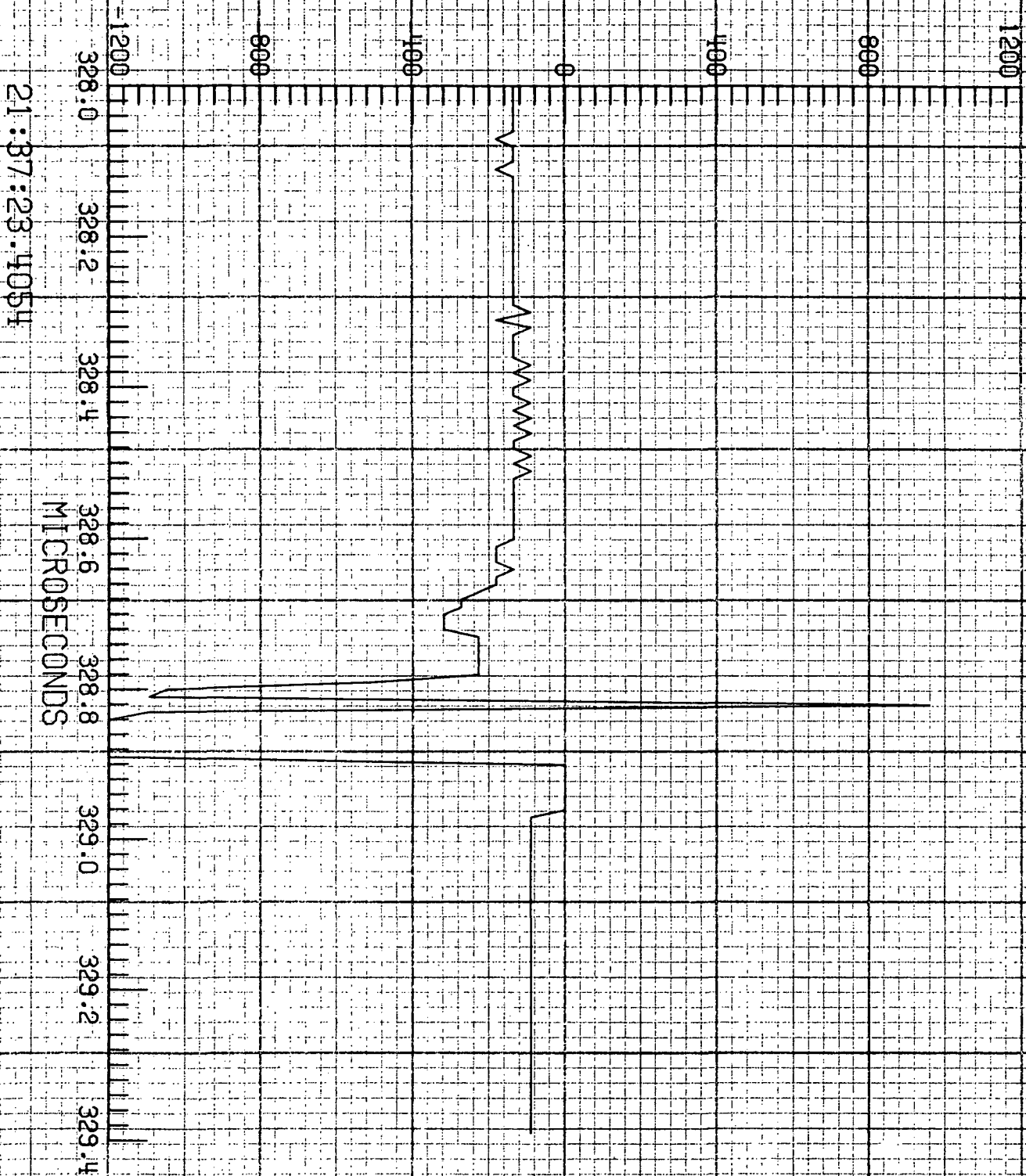
F106 LIGHTNING/TK.10/M.THOMAS

TEST NO. 83-029

RUN NO. 6

S-004

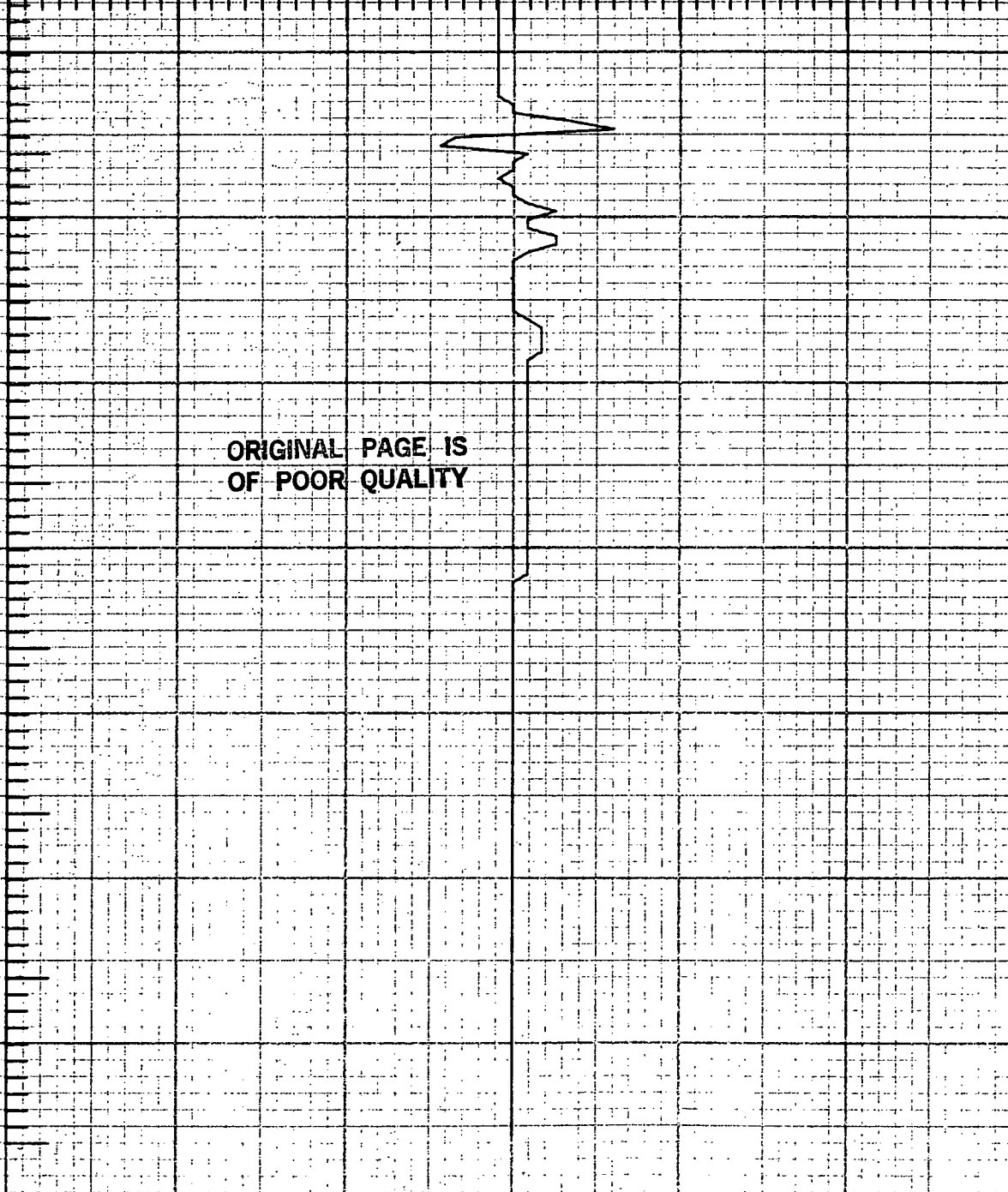
B DOT II T/S



F106 LIGHTNING TK 8/THOMAS
RUN NO. 7 N-003

TEST NO. 83-02

D DOT FWD A/m^2



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F106 LIGHTNING/TK.10/M.THOMAS

TEST NO. 83-02

RUN NO. 7

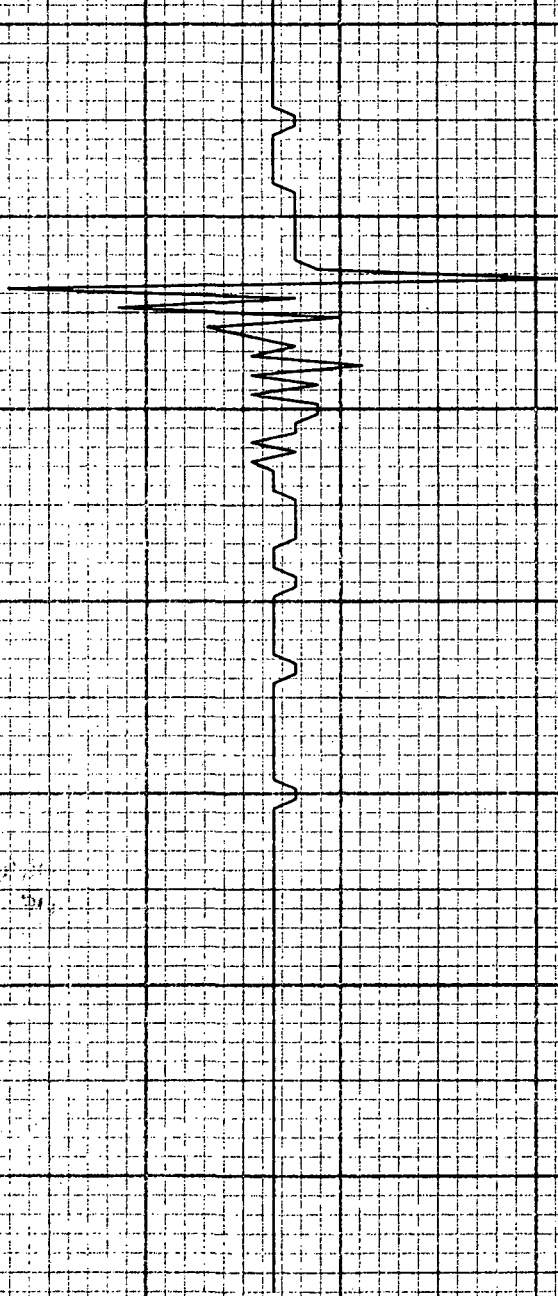
N-003

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MICROSECONDS

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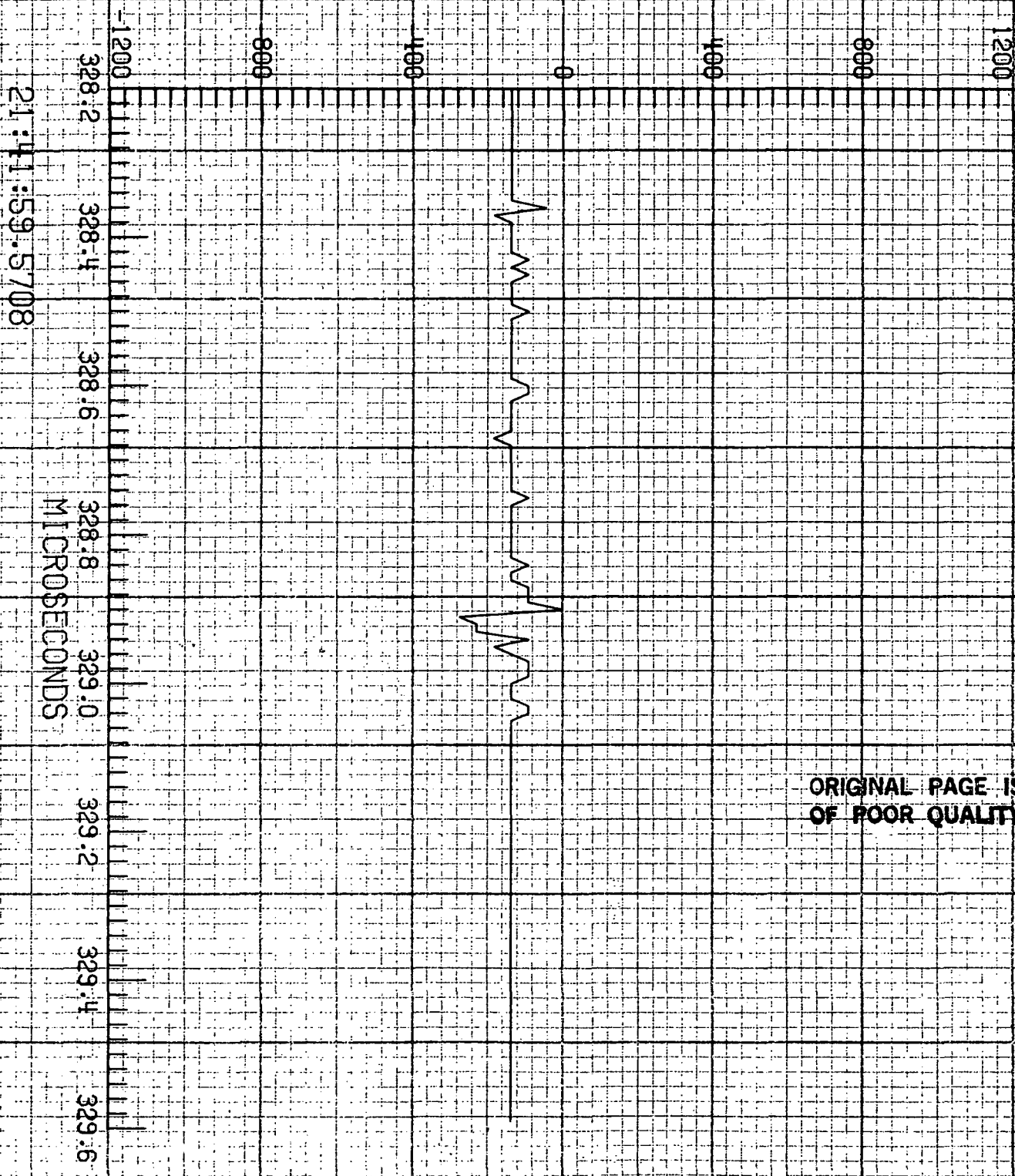
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TEST NO. 83-029

RUN NO. 8

N=004

B DOT L T/S

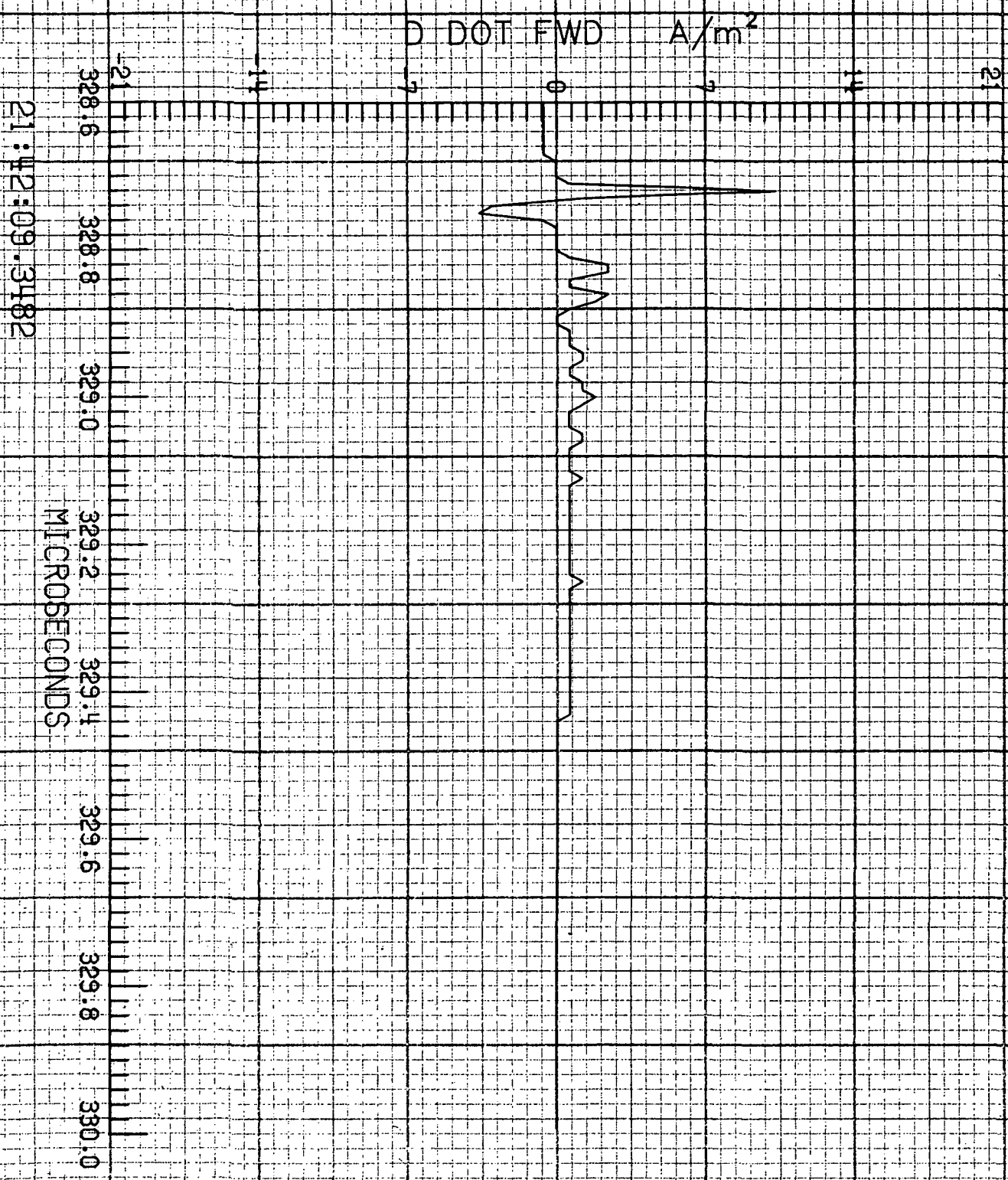


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F106 LIGHTNING TK 8/THOMAS
RUN NO. 9 S-005

TEST NO. 83-028



106 LIGHTNING/TK.10/M.THOMAS

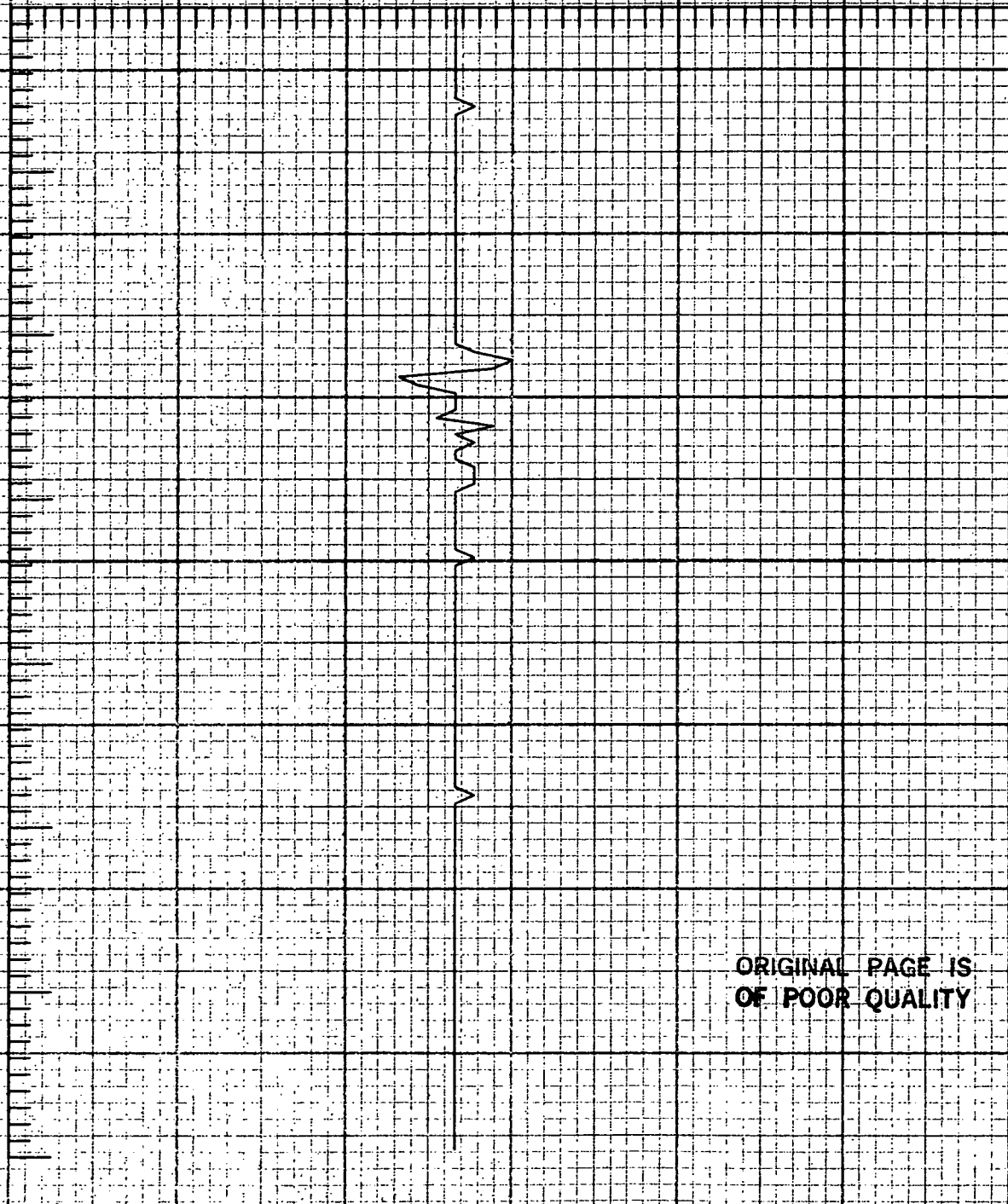
TEST NO. 83-025

RUN NO. 9

S-005

B DOT L T/S

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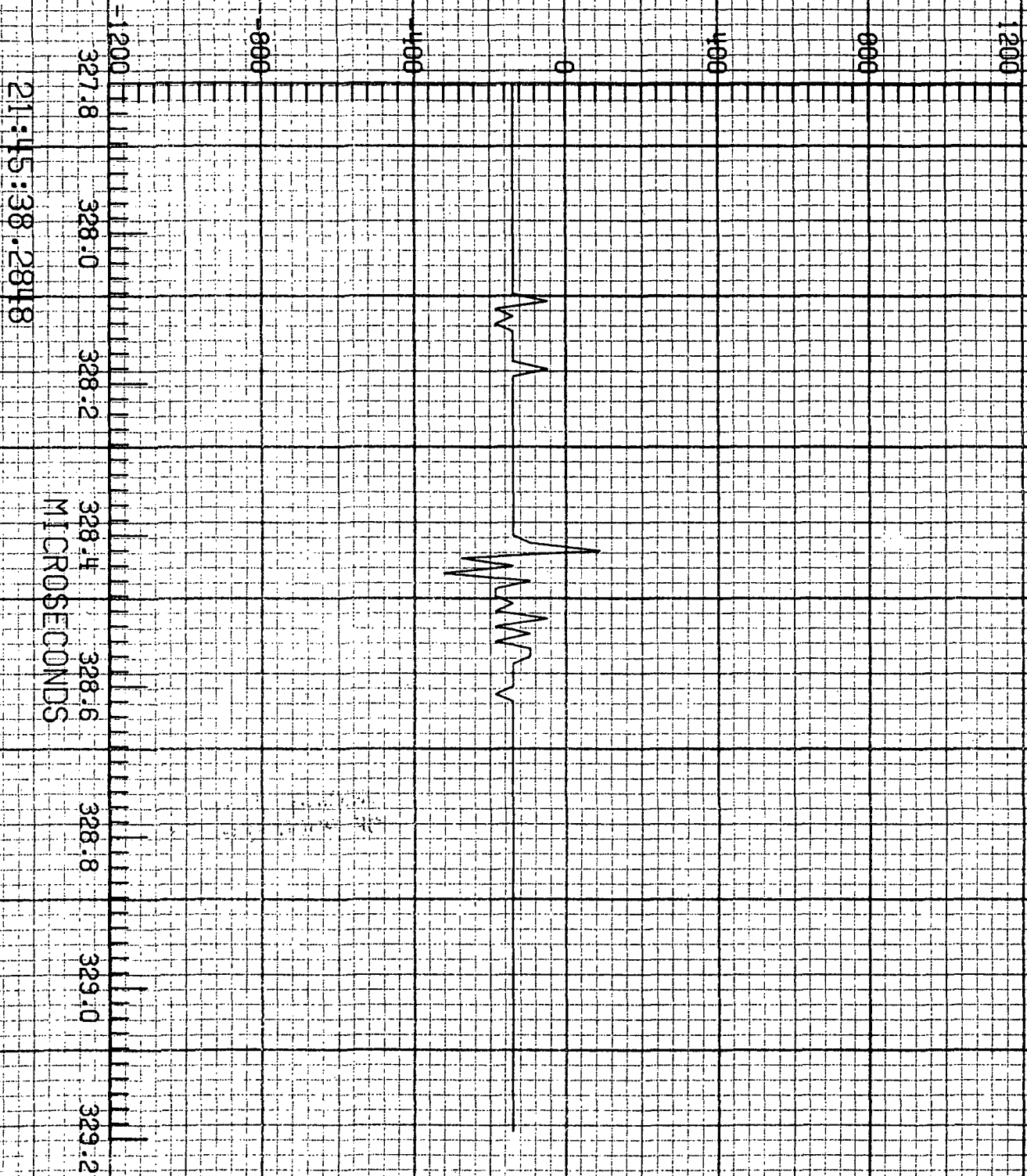
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TEST NO. 83-02

RUN NO. 10

N-005

B DOT L T/S



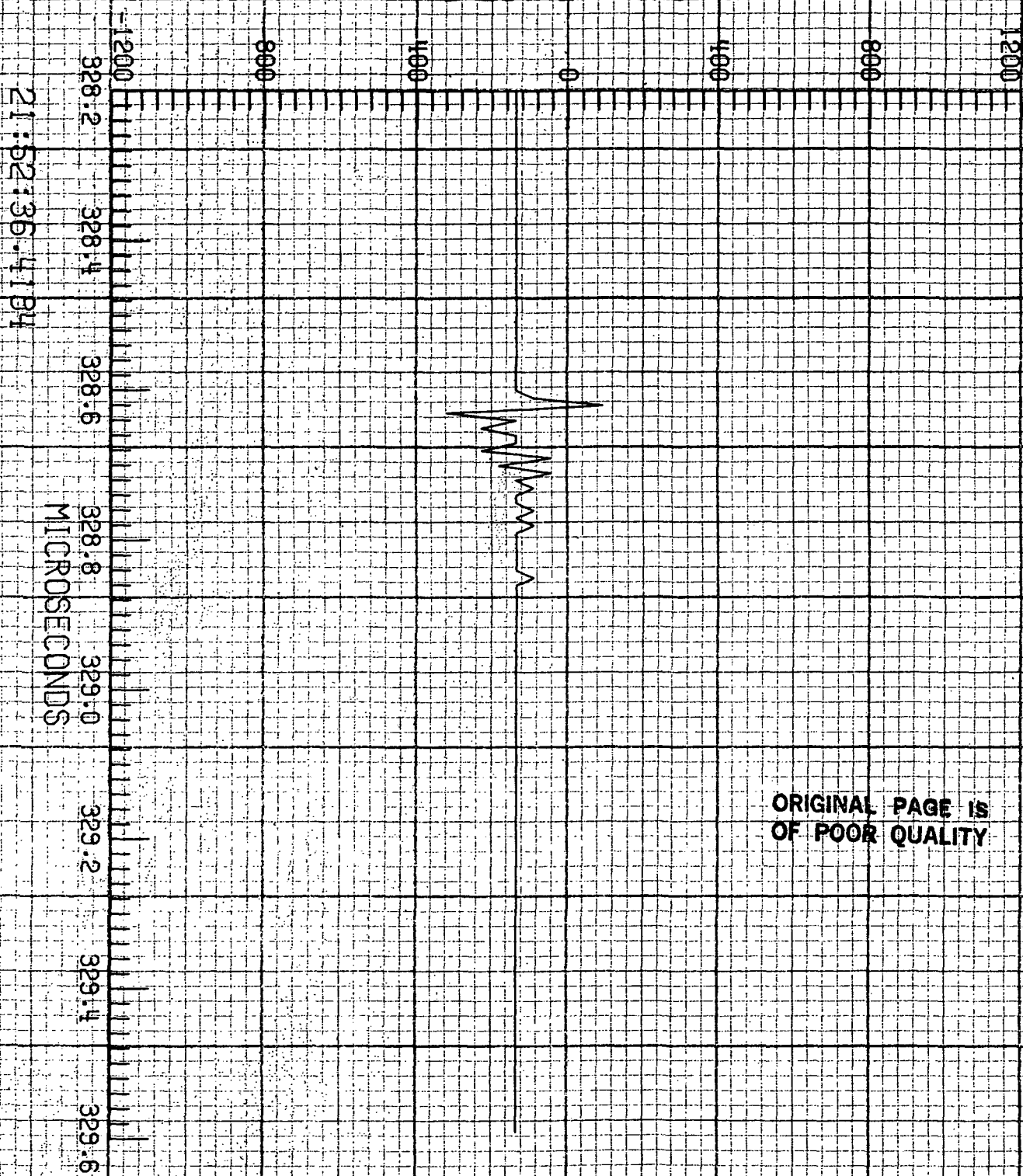
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TEST NO. 83-02

RUN NO. 11

N-006

B DOT 1 I/S



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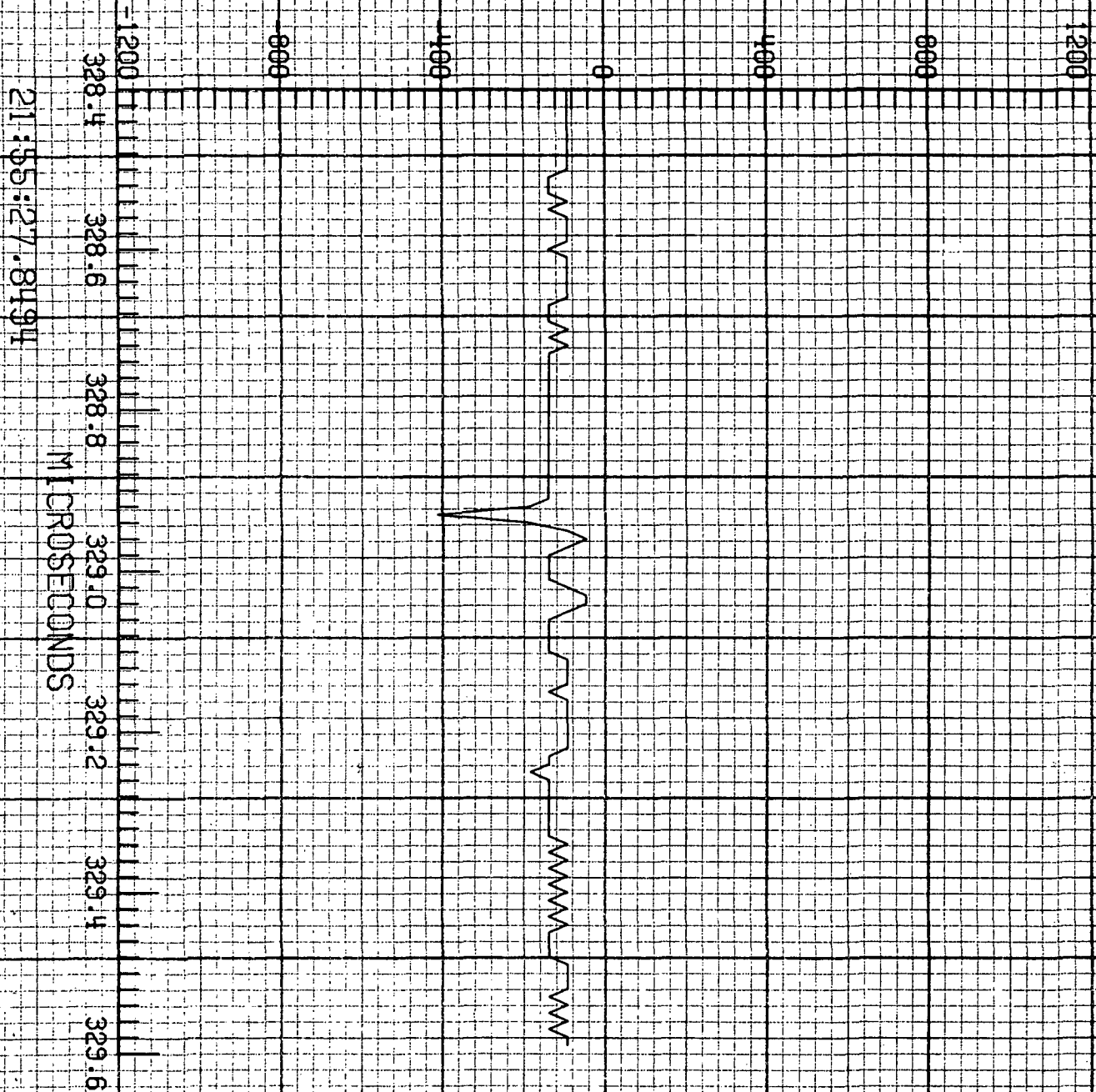
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TEST NO. 83-02

RUN NO. 12

N-007

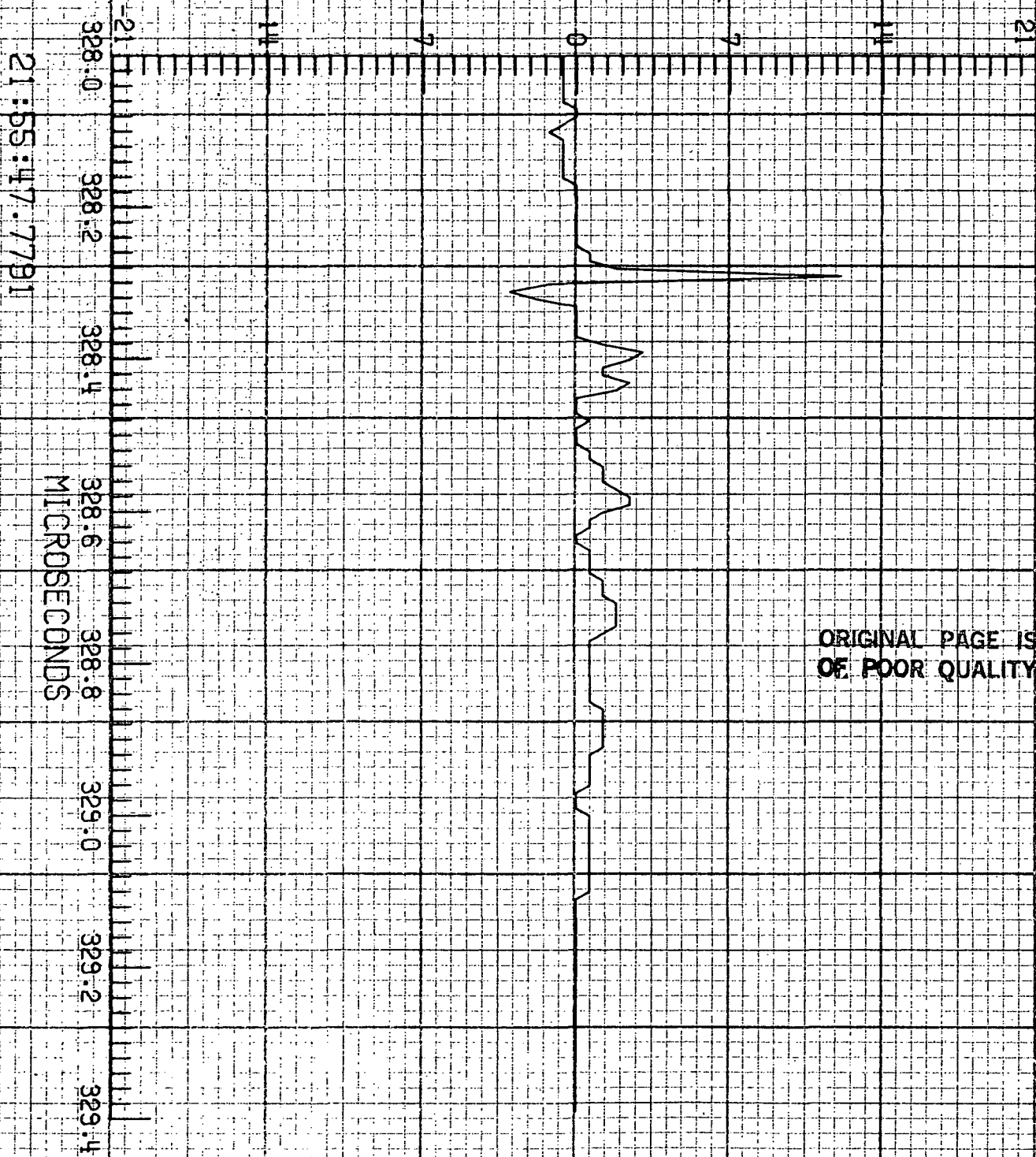
B DOT L T/S



F106 LIGHTNING TK 8/THOMAS
RUN NO. 13 N-008

TEST NO. 83-02

D DOT FWD A/m^2



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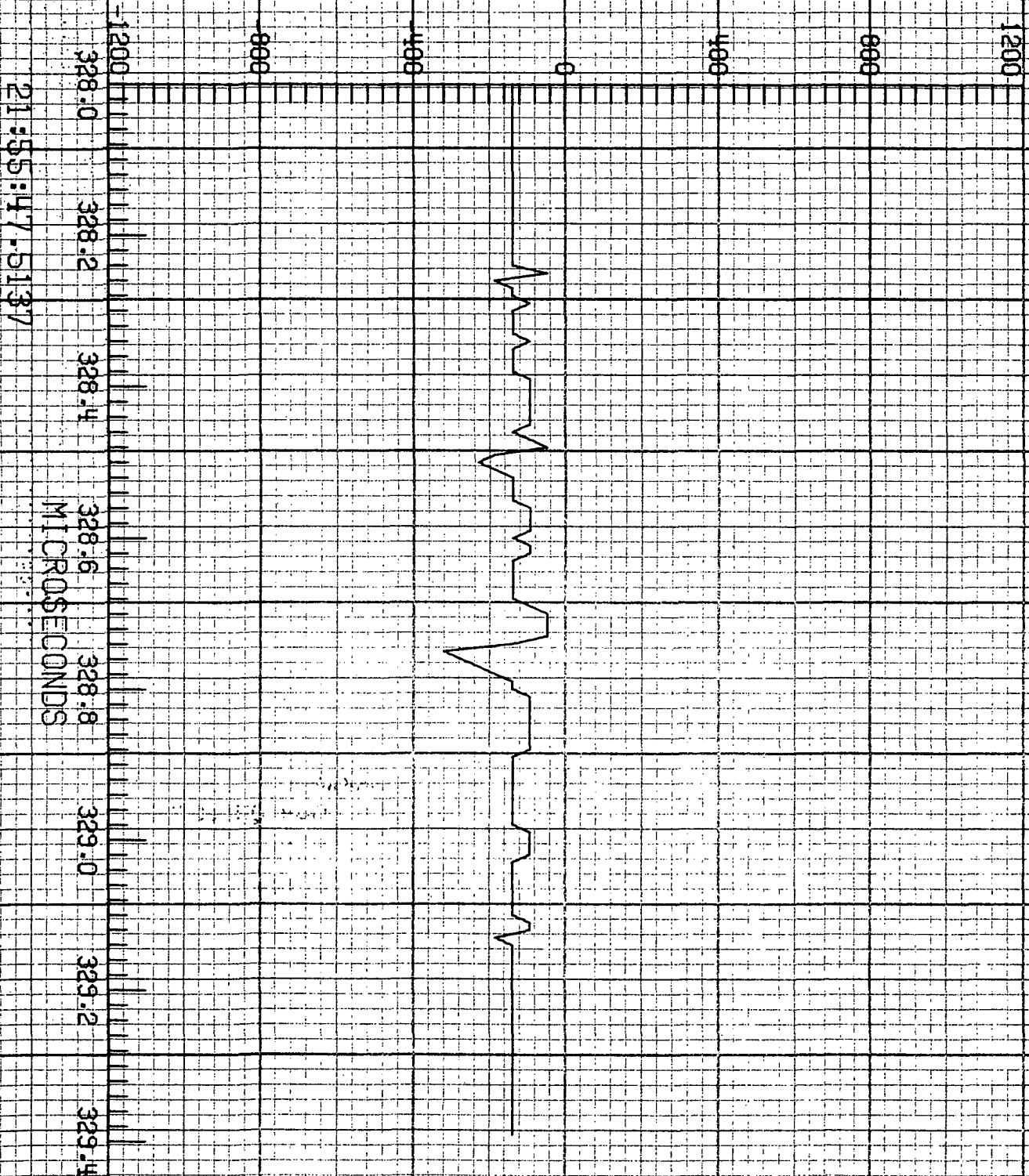
F106 LIGHTNING/TK.10/M.THOMAS

TEST NO. 83-029

RUN NO. 13

N-008

B DOT L T/S



F106 LIGHTNING/TK.10/M.THOMAS

TEST NO. 83-029

RUN NO. 14

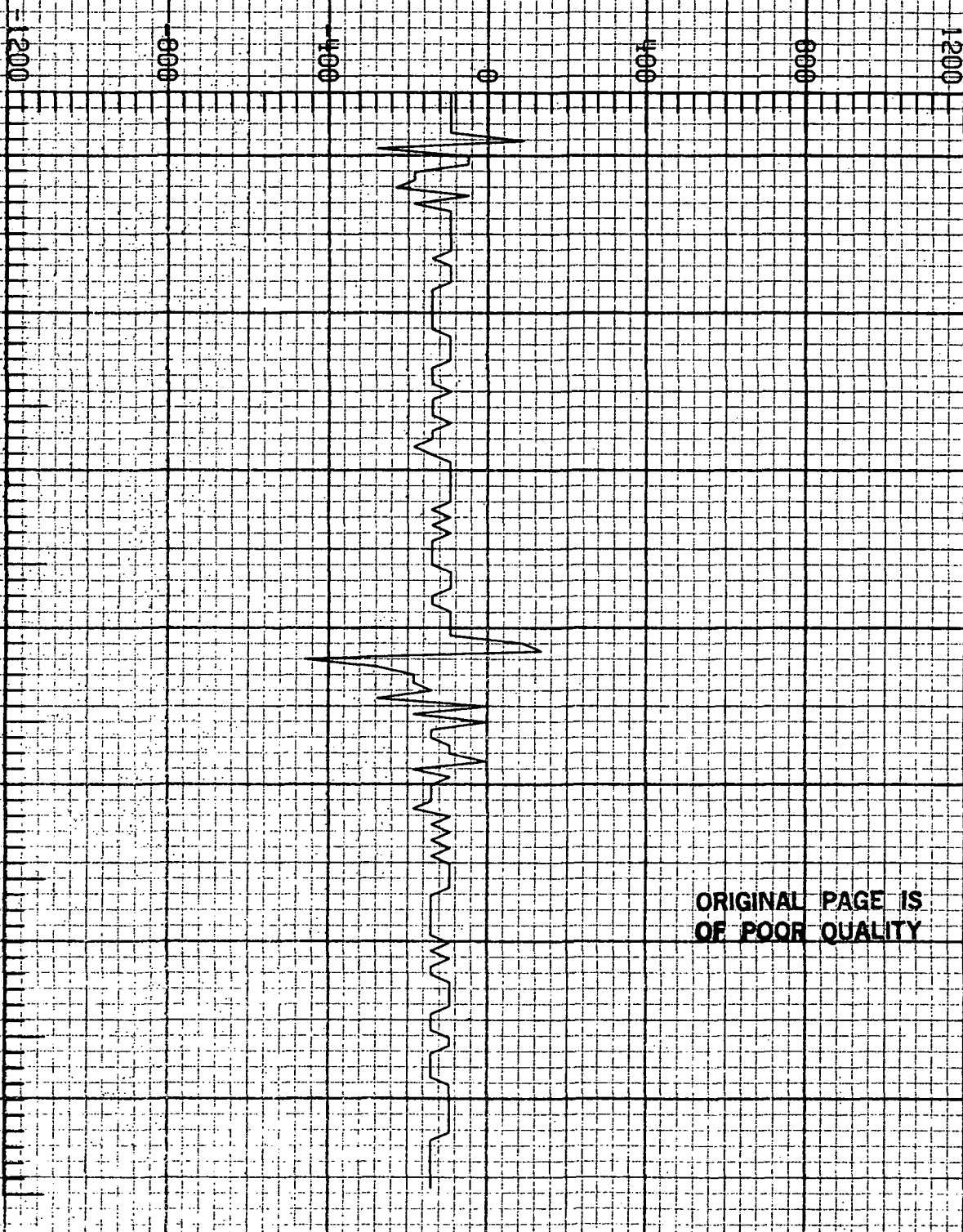
S=007

B DOT I T/S

22:00:31.5785

MICROSECONDS

327.9
328.1
328.3
328.5
328.7
328.9
329.1
329.3



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F106 LIGHTNING/TK.10/M.THOMAS

TEST NO. 83-02

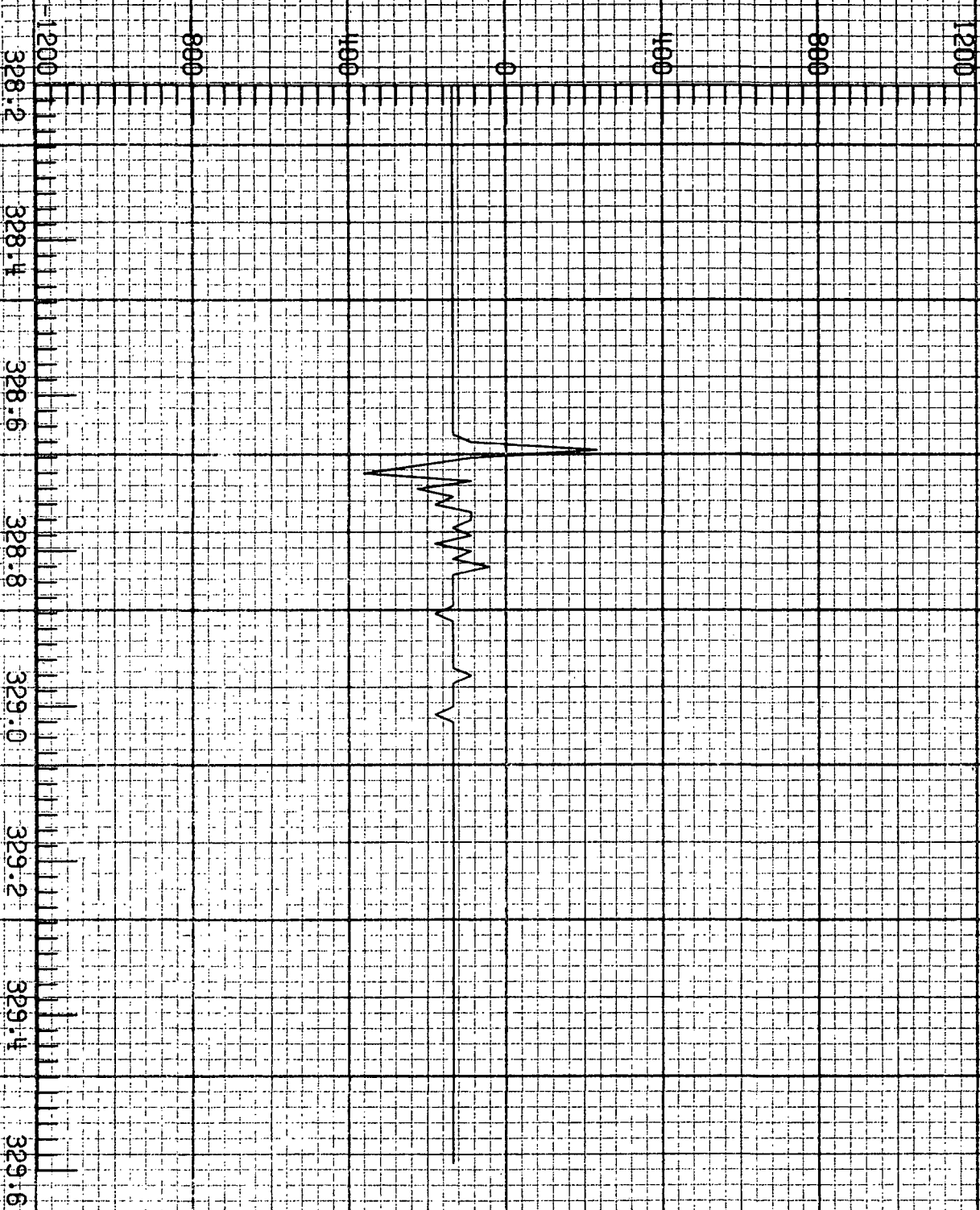
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N=009

B DOT L T/S

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MICROSECONDS



F106 LIGHTNING/TK.10/M.THOMAS

TEST NO. 83-029

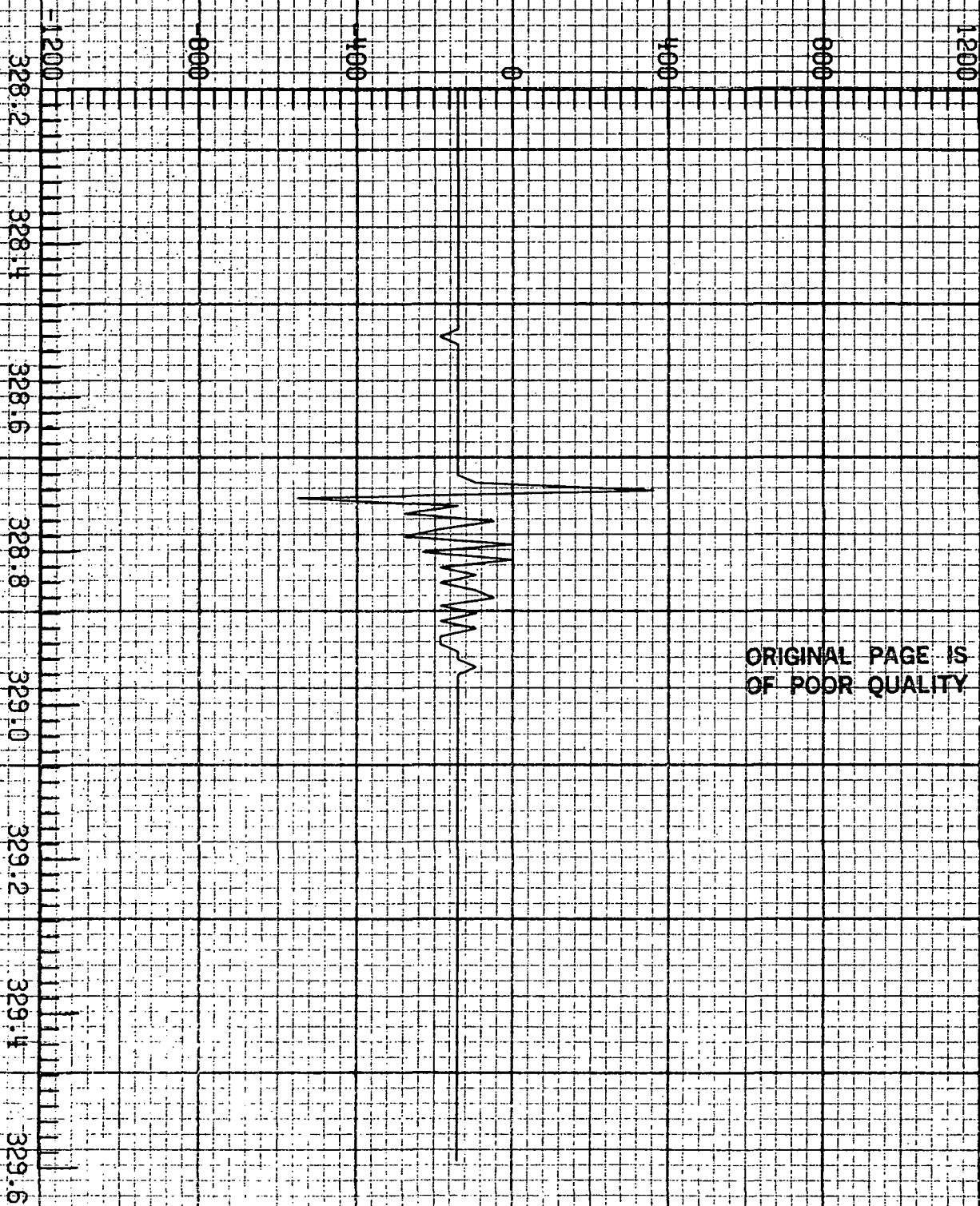
RUN NO. 16

N=010

B DOT L T/S

22:01:25.9881

MICROSECONDS



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F106 LIGHTNING TK 8/THOMAS
RUN NO. 17 S-008

TEST NO. 83-02

D DOT FWD A/m^2

22:05:22.7979

328.6
328.8
329.0
329.2
329.4
329.6
329.8
380.0
MICROSECONDS

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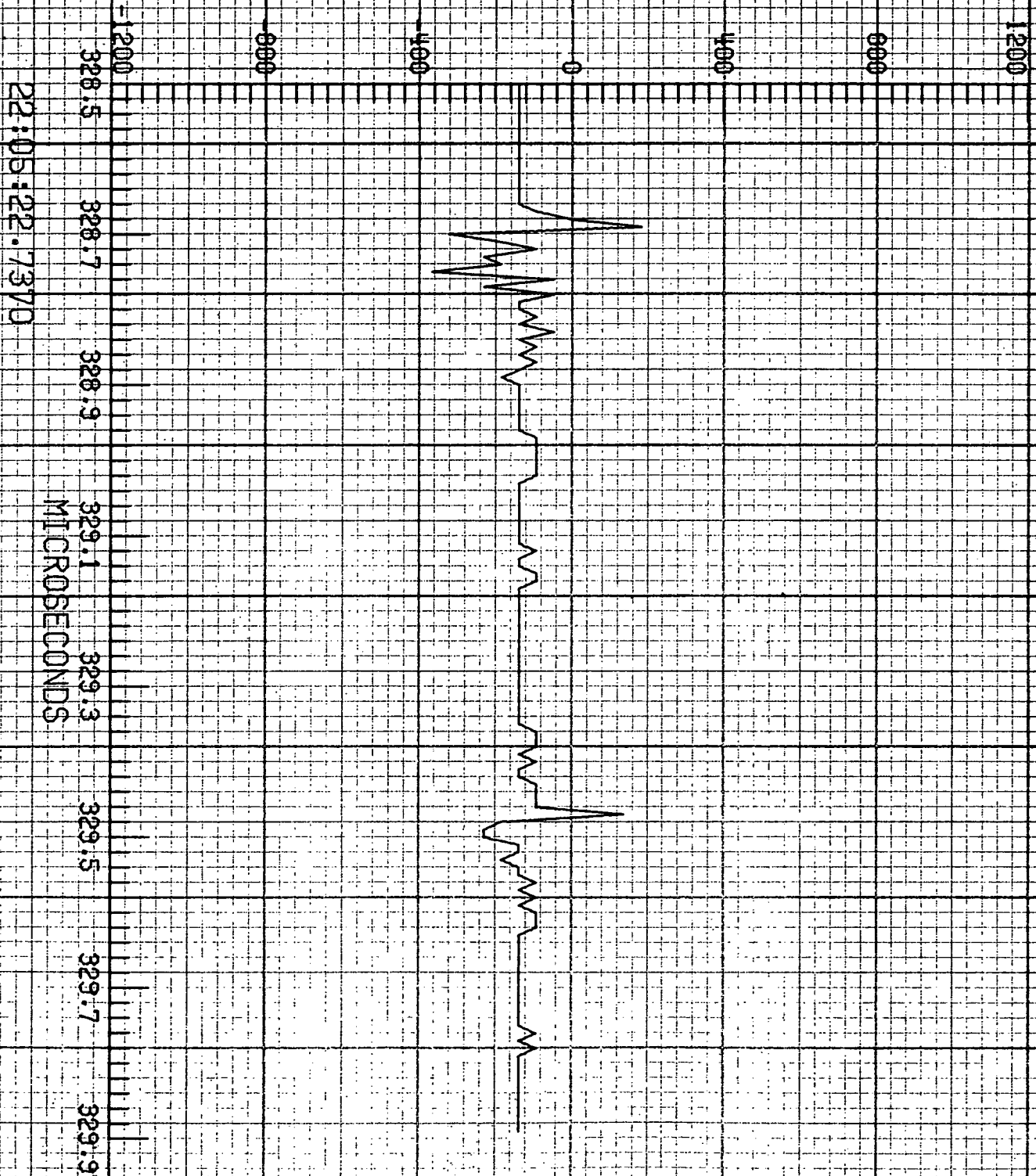
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TEST NO. 83-029

RUN NO. 17

S-008

B DOT L T/S



F106 LIGHTNING/TK.10/M.THOMAS

TEST NO. 83-02

RUN NO. 18

N-011

B DOT L T/S

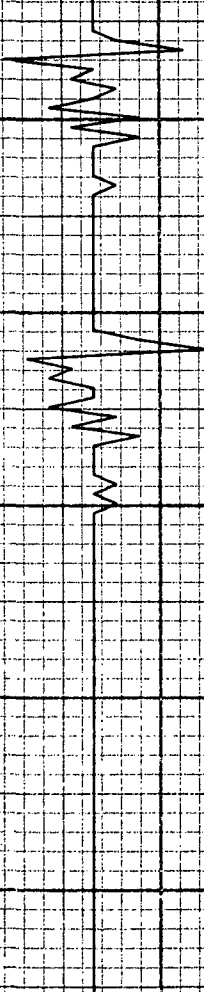
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22:05:49.3107

MICROSECONDS

328.2 328.4 328.6 328.8 329.0 329.2 329.4 329.6



F106 LIGHTNING TK 8/THOMAS
RUN NO. 19 S-009

TEST NO. 83-02

D DOT FWD

A/m²

22:06:04.5488

MICROSECONDS

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F106 LIGHTNING/TK.10/M.THOMAS

TEST NO. 83-02

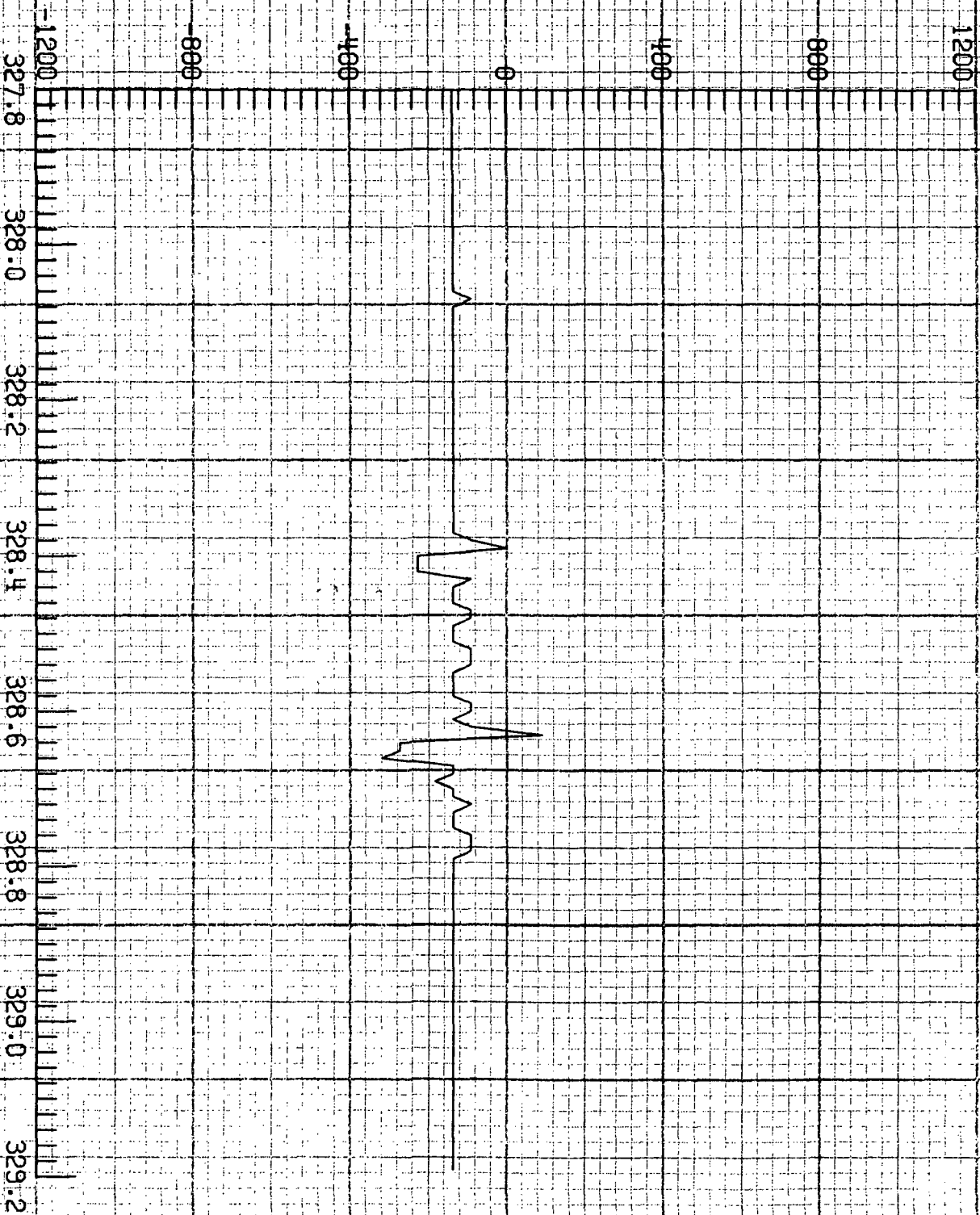
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MICROSECONDS



F106 LIGHTNING TK 8/THOMAS

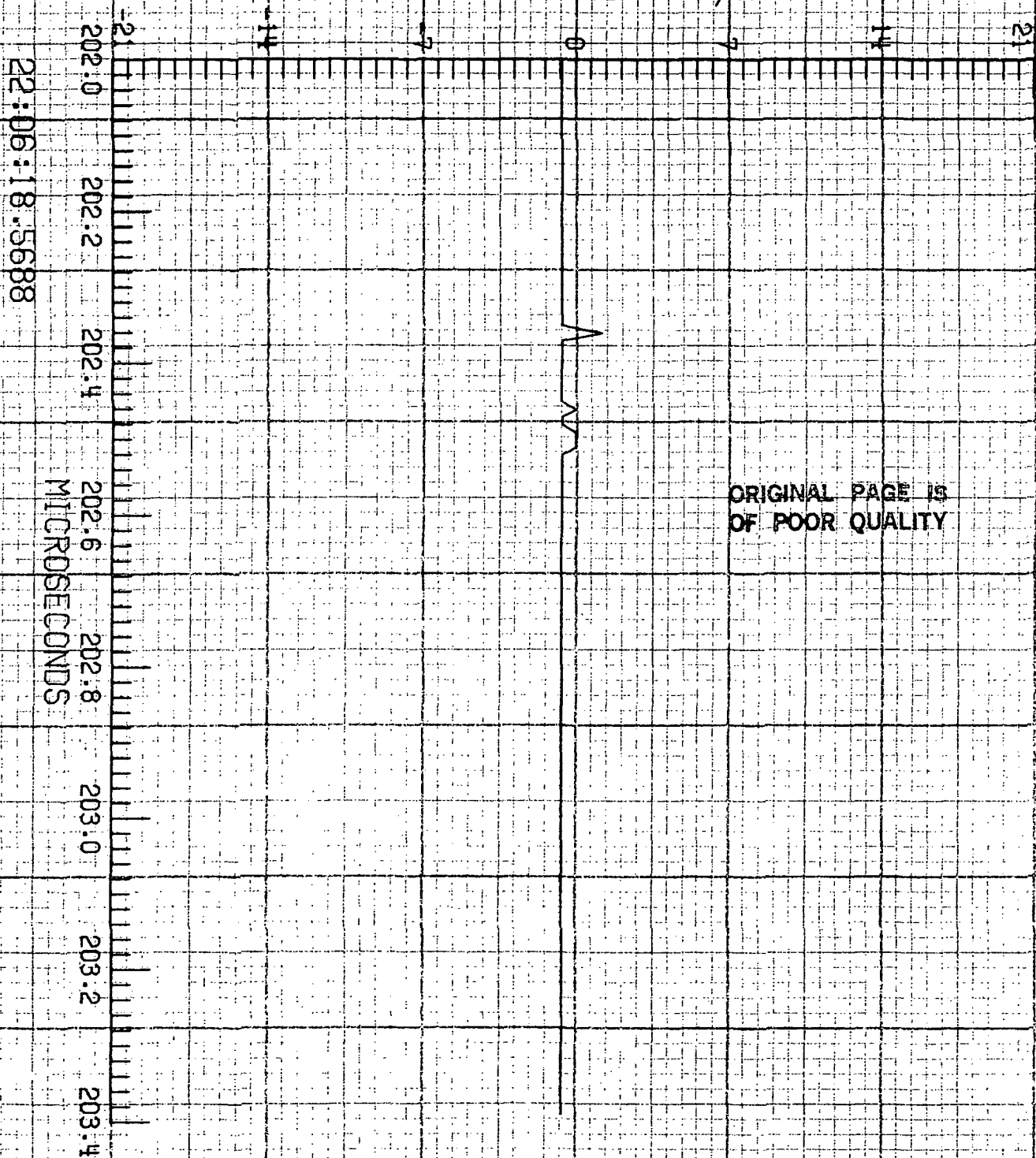
TEST NO. 83-029

RUN NO. 20

S-010

D DOT FWD

A/m²



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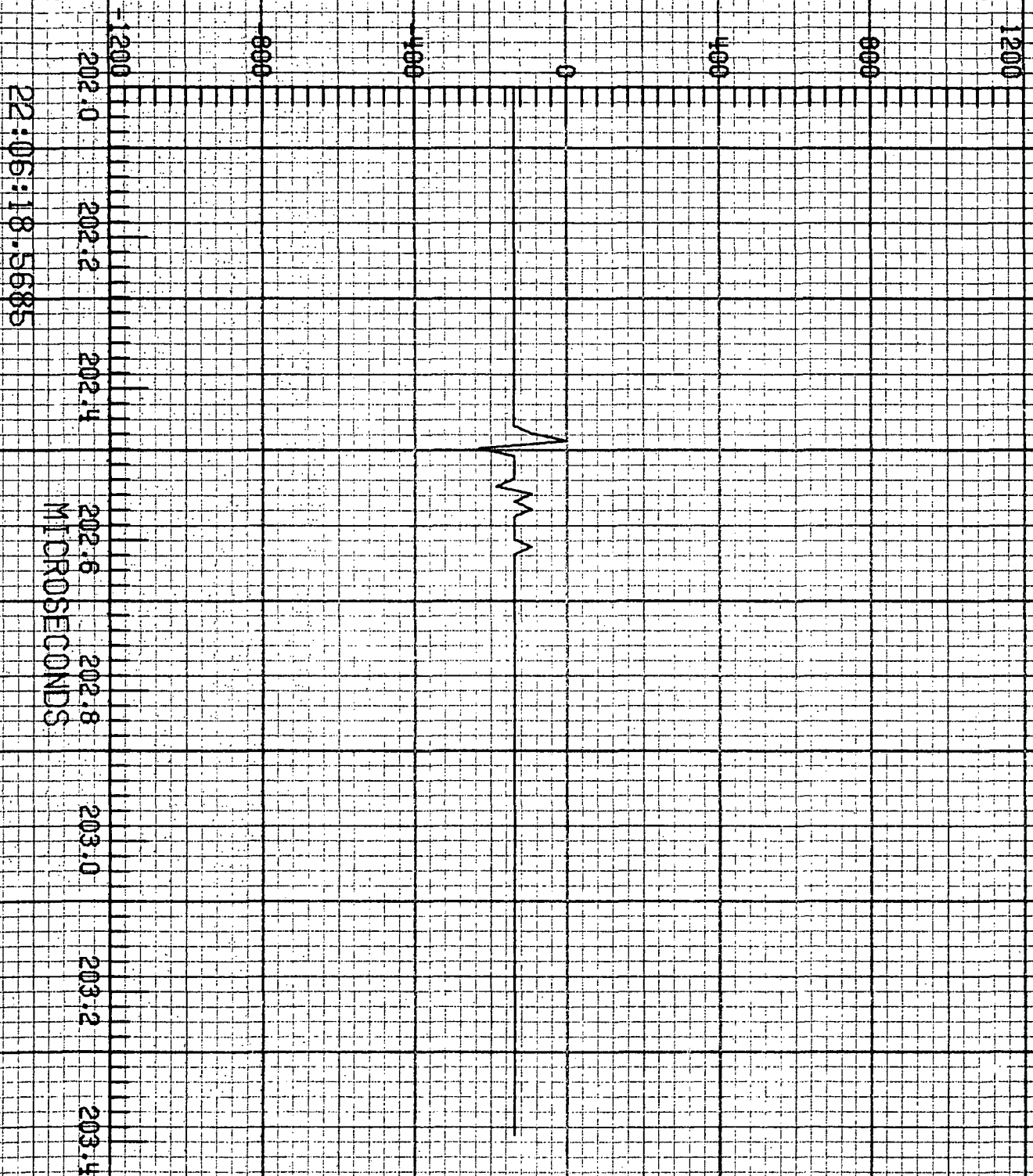
F106 LIGHTNING/TK.10/M.THOMAS

TEST NO. 83-025

RUN NO. 20

S-010

B DOT L T/S



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F106 LIGHTNING/TK.10/M.THOMAS

TEST NO. 83-029

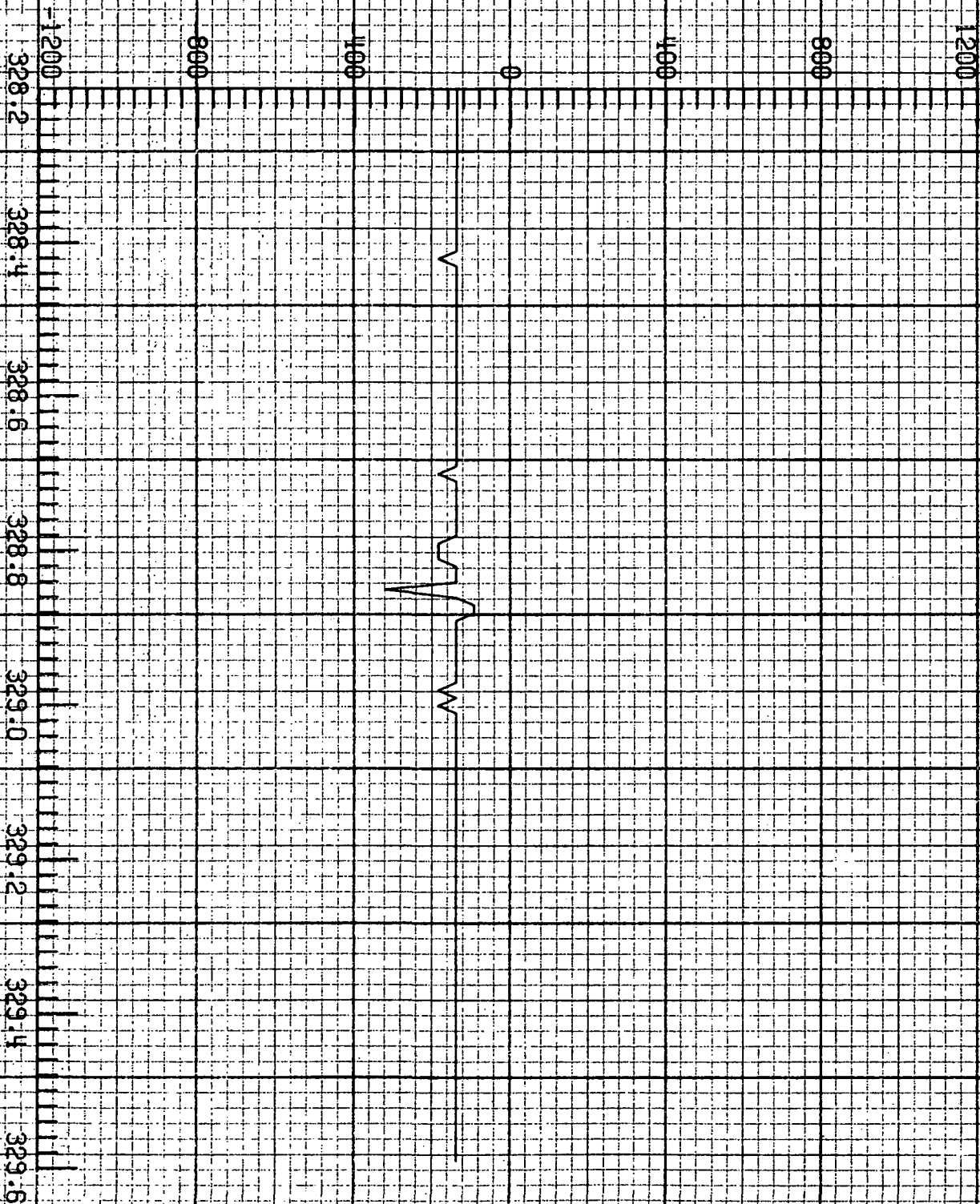
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S-010

B DOT L T/S

22:06:18.5685

MICROSECONDS



F106 LIGHTNING TK 8/THOMAS

TEST NO. 83-02

RUN NO. 20

S-010

D DOT FWD

A/m²

22:06:18.5688

MICROSECONDS

762.0

762.2

762.4

762.6

762.8

763.0

763.2

763.4

F106 LIGHTNING/IK.10/M.THOMAS

TEST NO. 83-02

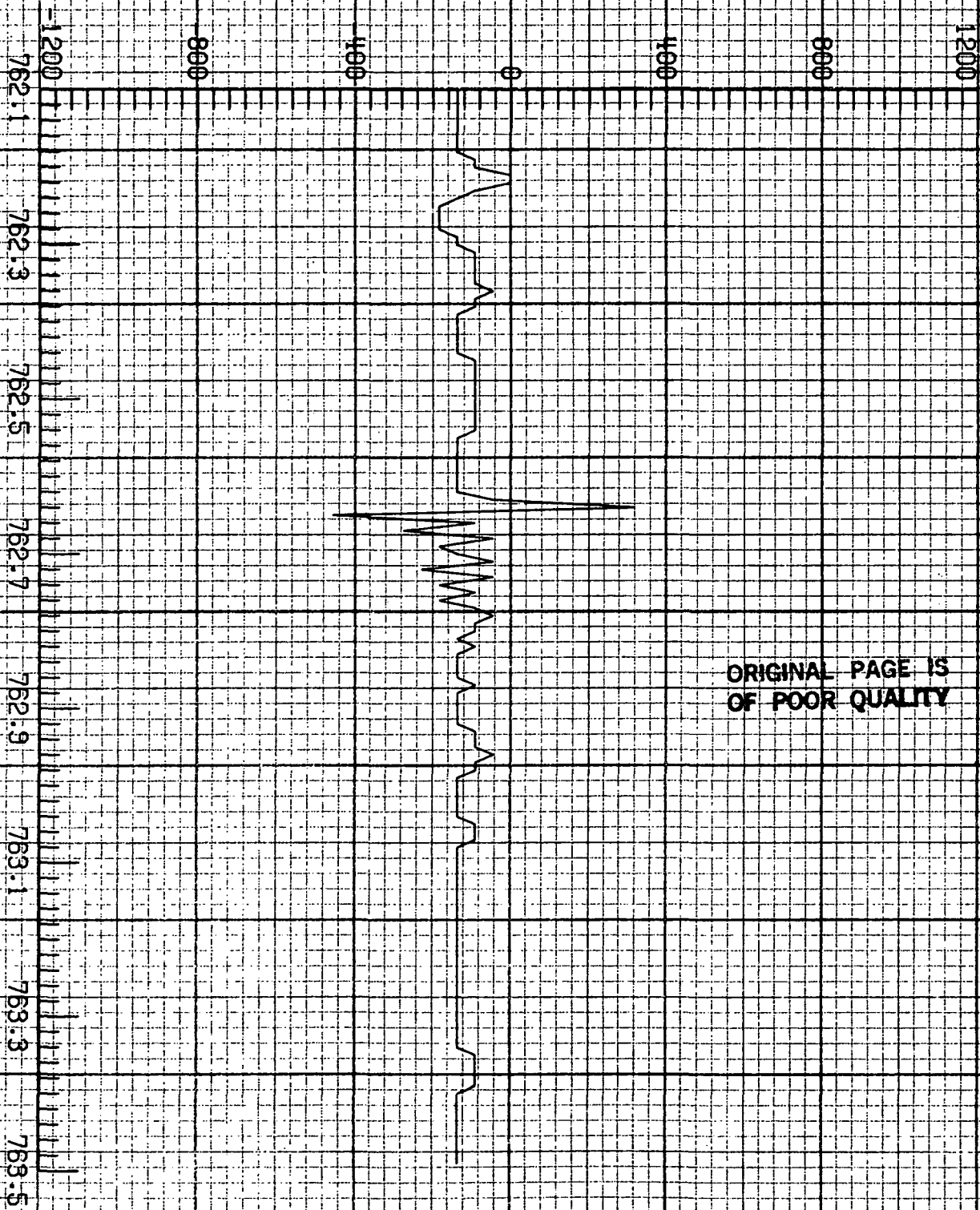
RUN NO. 20

S-010

B DOT I I/S

22:06:18.5685

MICROSECONDS



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F106 LIGHTNING/TK-10/M.THOMAS

TEST NO. 83-029

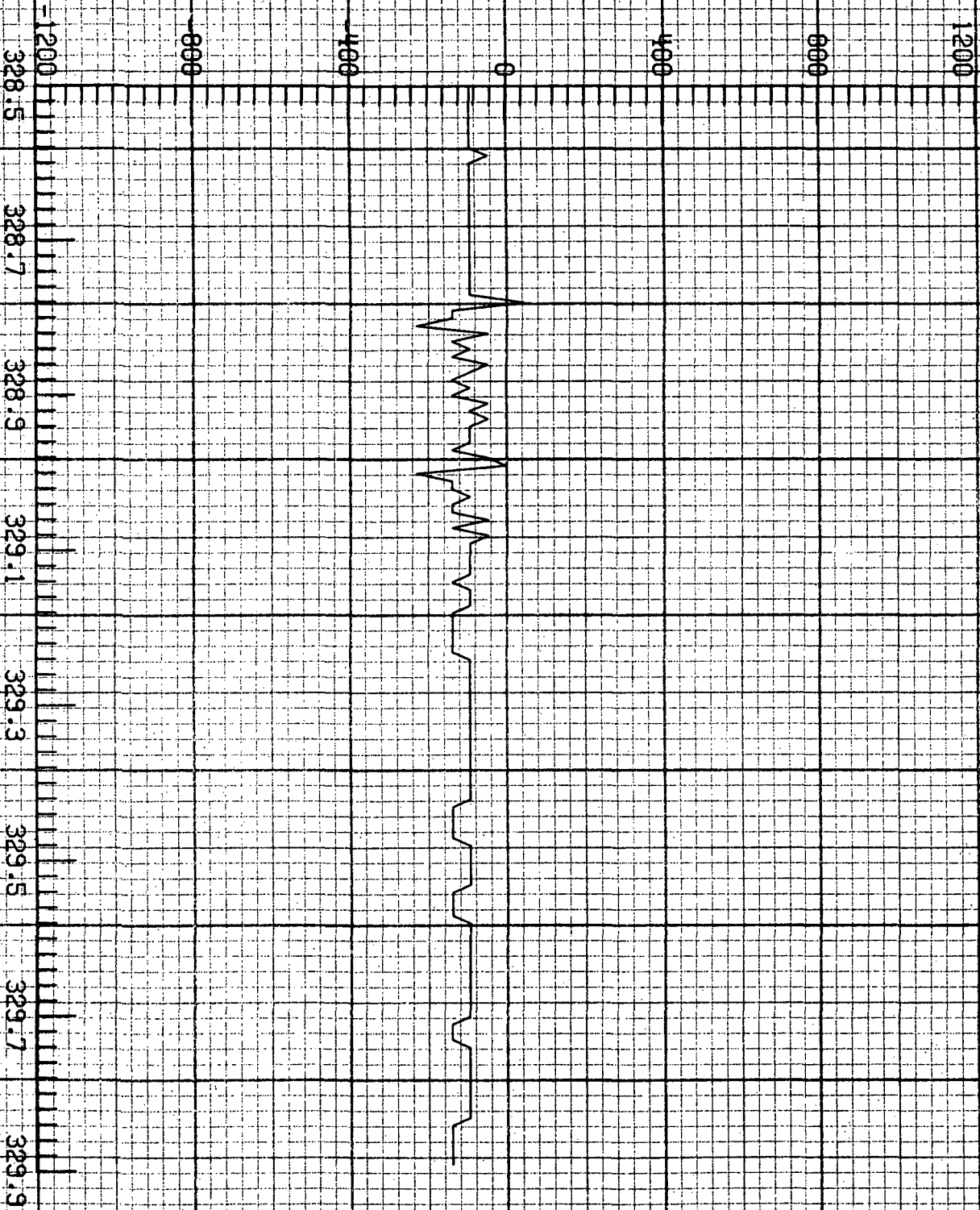
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S-011

B DOT L T/S

22:06:30.6121

MICROSECONDS



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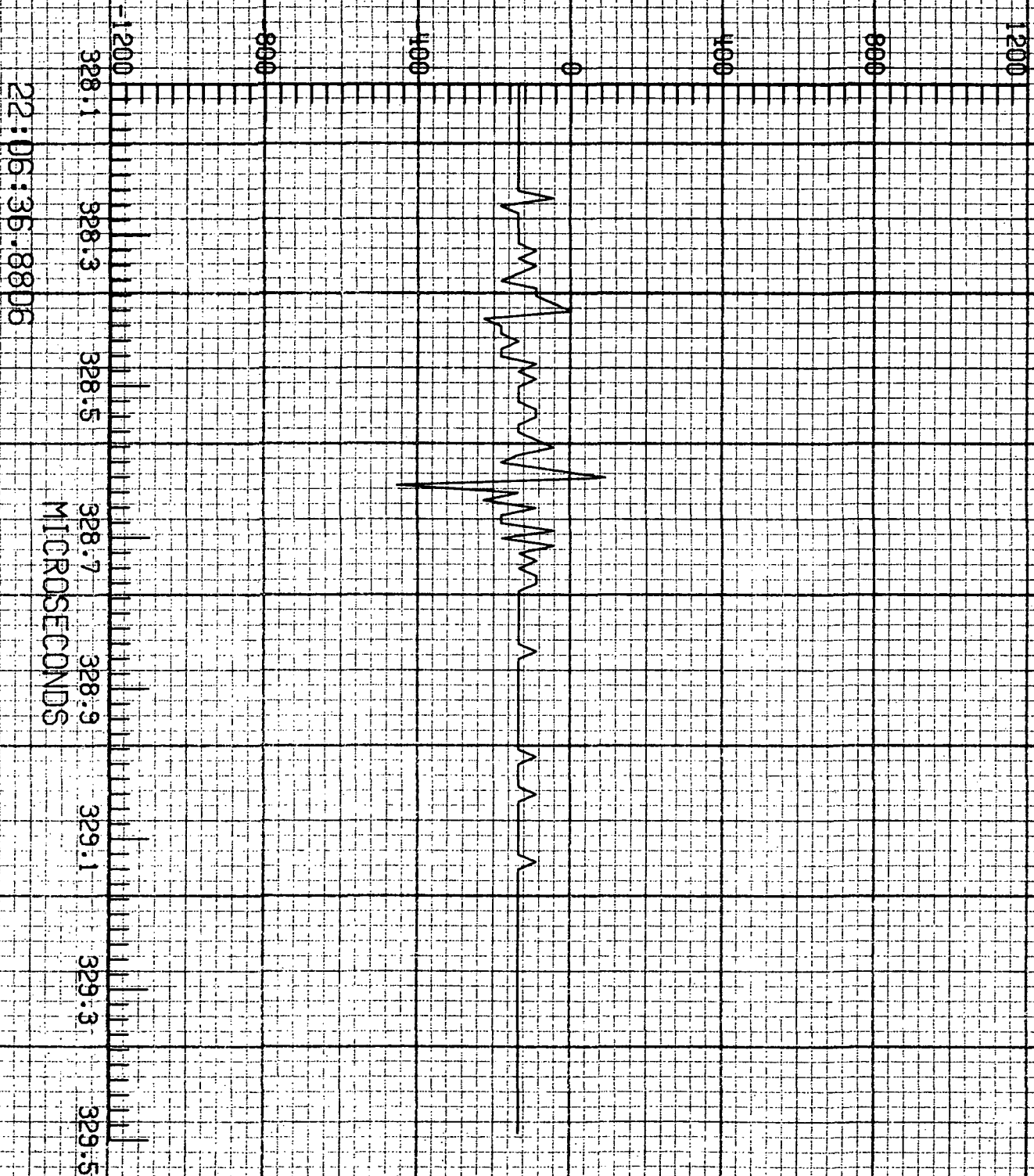
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TEST NO. 83-02

RUN NO. 22

N=012

B DOT I T/S



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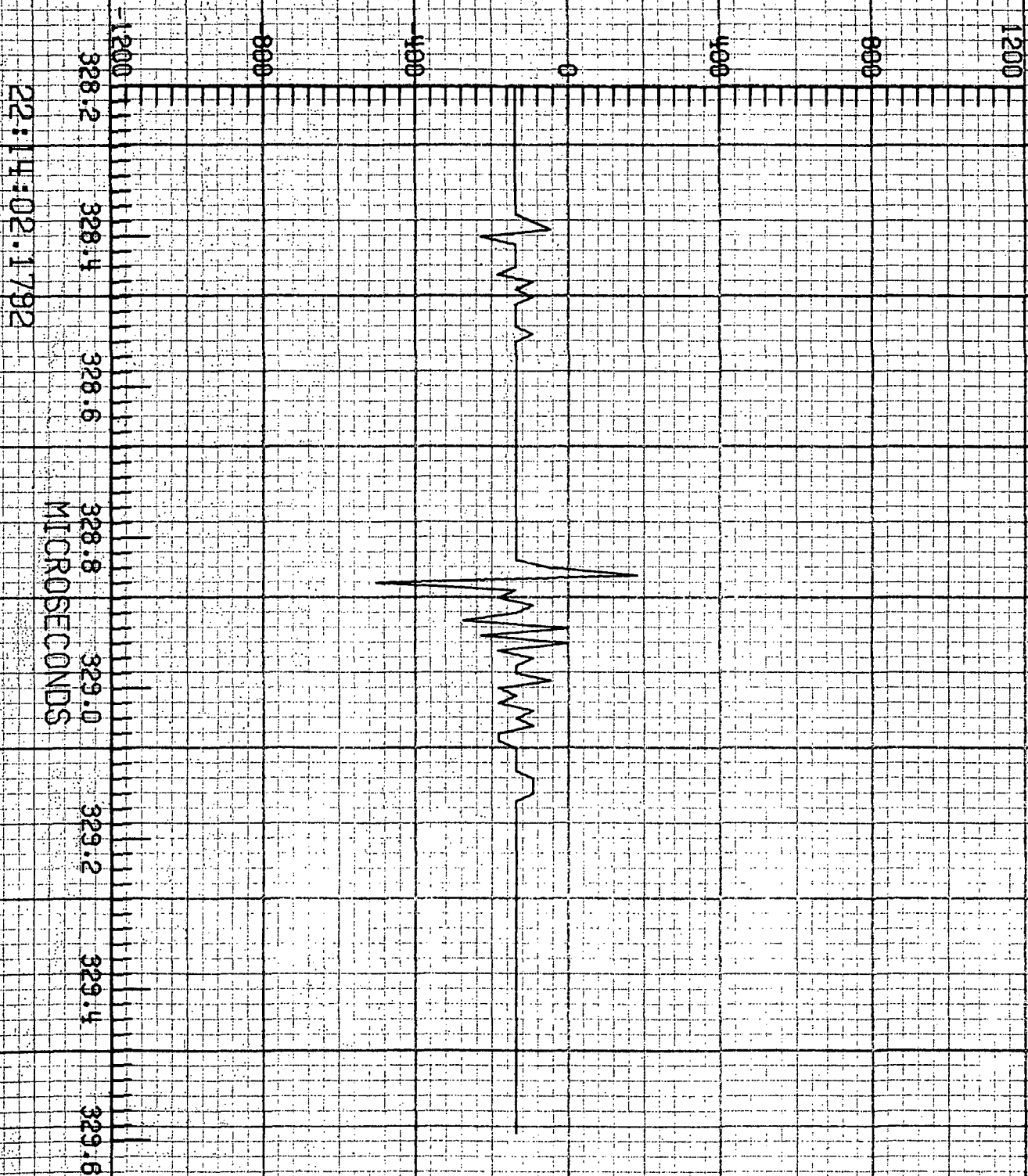
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TEST NO. 83-02

RUN NO. 23

N-013

B DOT L T/S



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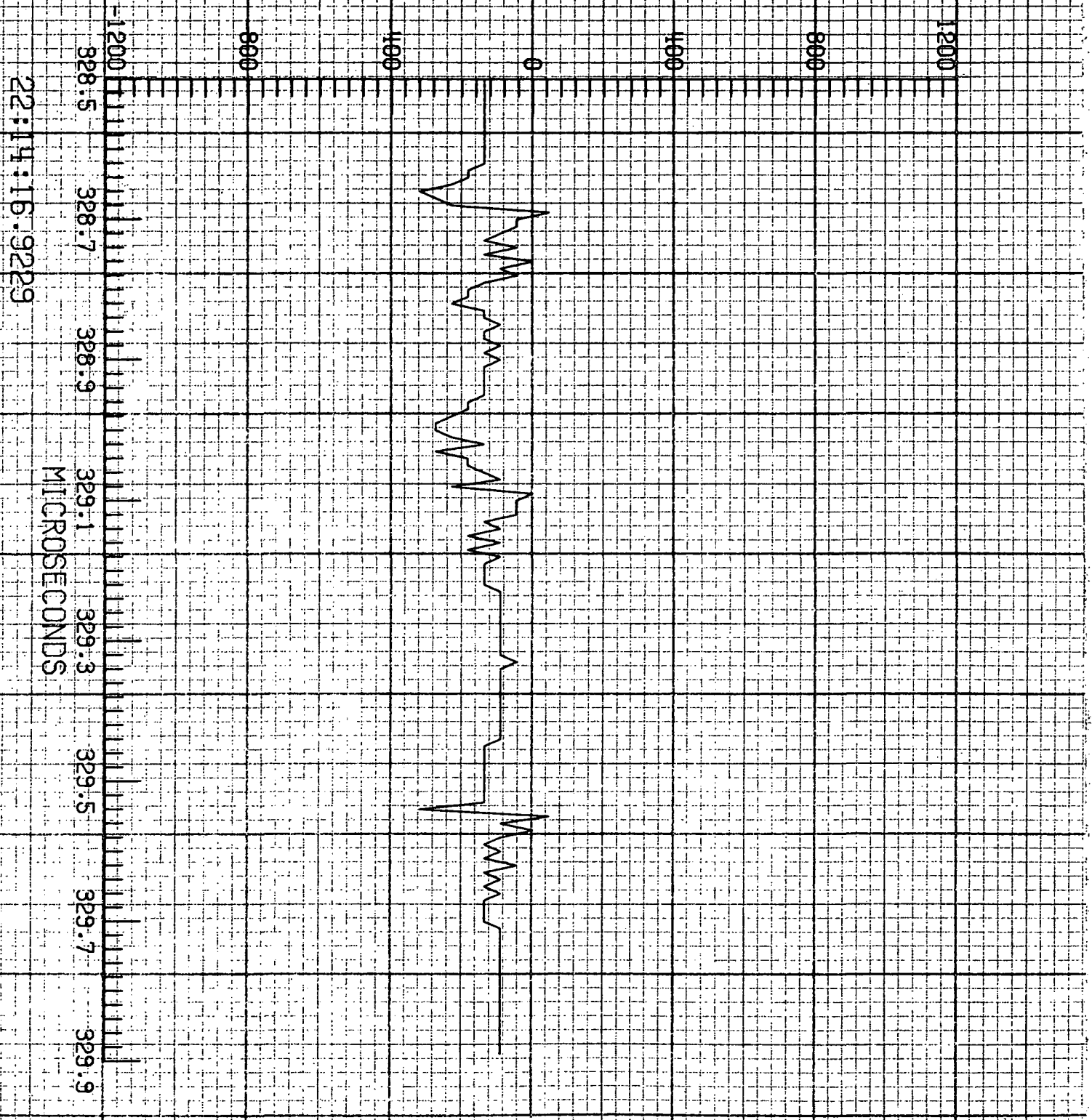
F106 LIGHTNING/TK.10/M.THOMAS

TEST NO. 83-02

RUN NO. 24

S=012

B DOT L T/S



F106 LIGHTNING/TK.10/M.THOMAS

TEST NO. 83-02

RUN NO. 25

N-014

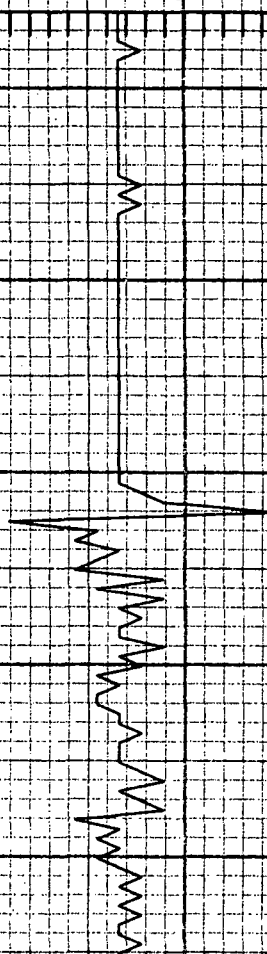
B DOT I T/S

22:20:30.8059

MICROSECONDS

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F106 LIGHTNING/TK-10/M.THOMAS

TEST NO. 83-029

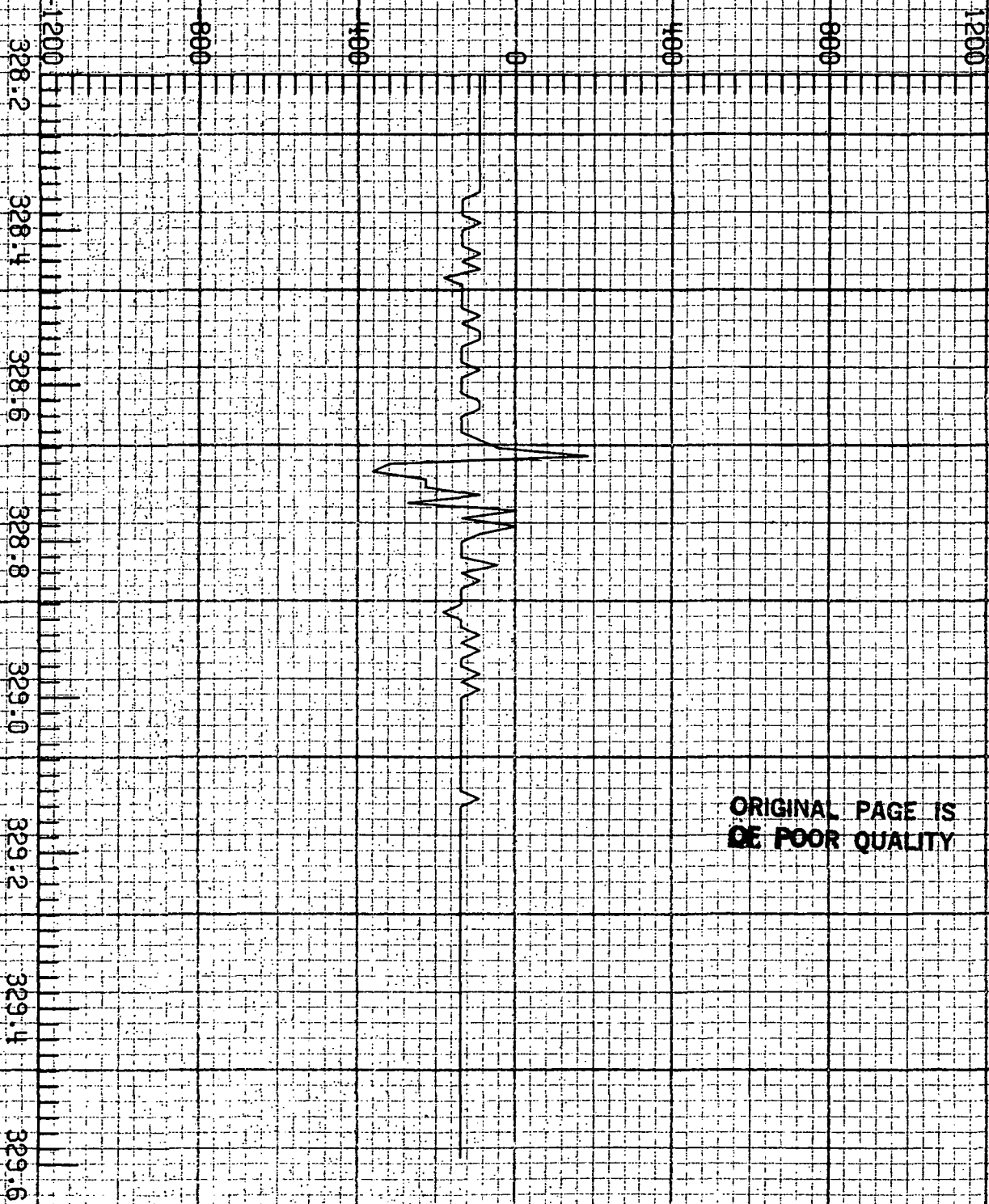
RUN NO. 26

N-015

B DOT L T/S

22:28:37.6013

MICROSECONDS



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F106 LIGHTNING/TK.10/M.THOMAS

TEST NO. 83-029

RUN NO. 27

S-015

B DOT I T/S

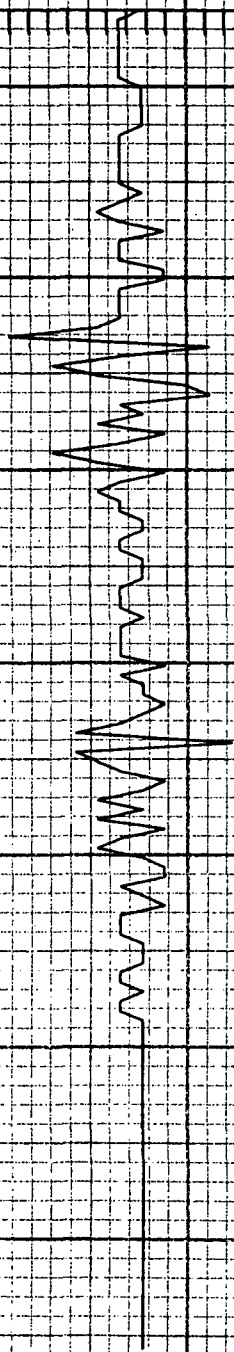
1200
800
400
0
400
800
1200

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22:32:13.779

MICROSECONDS

328.5
328.7
328.9
329.1
329.3
329.5
329.7
329.9



F106 LIGHTNING/TK.10/M.THOMAS

TEST NO. 83-02

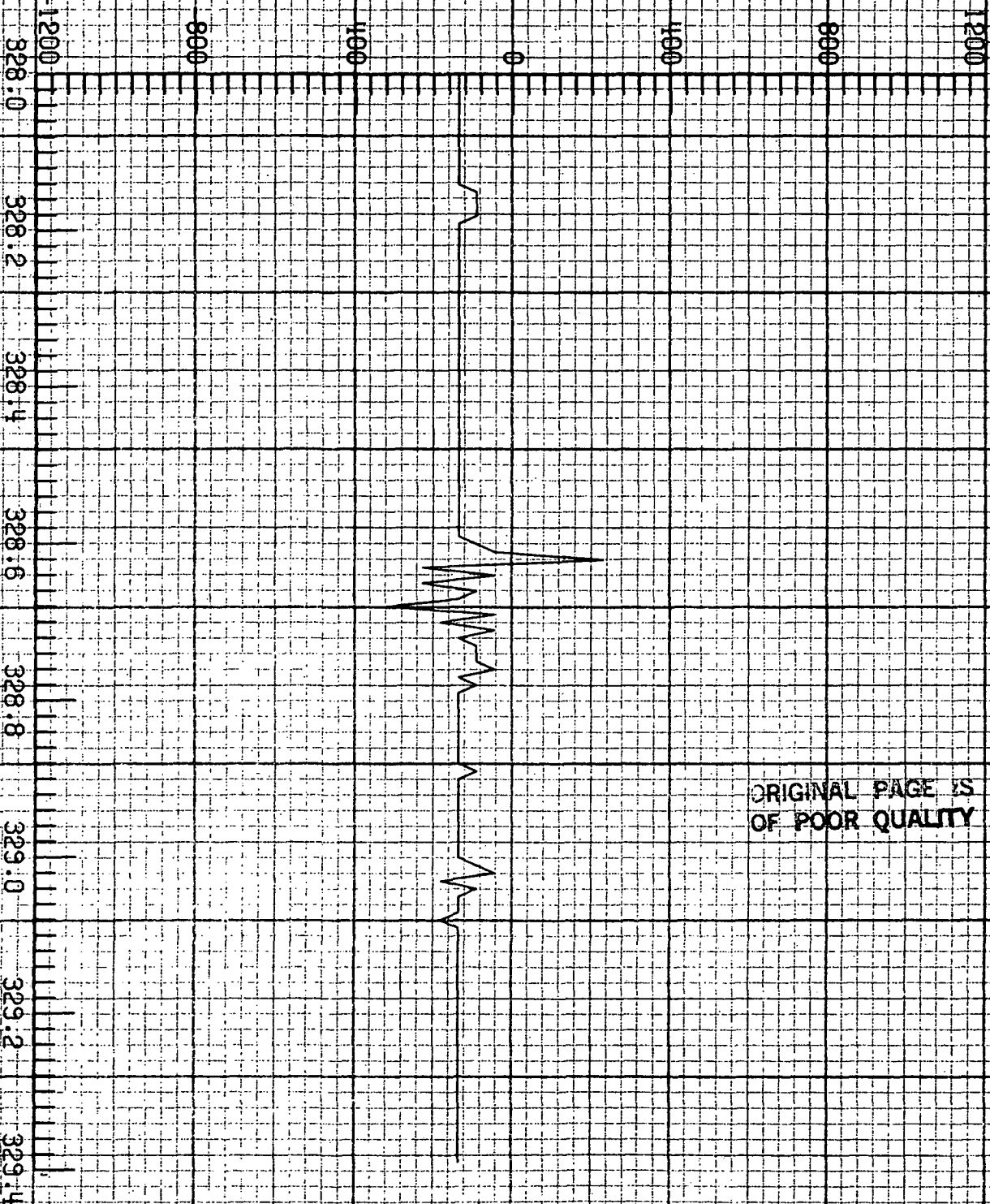
RUN NO. 28

S-016

B DOT L I/S

22:33:42.3519

MICROSECONDS



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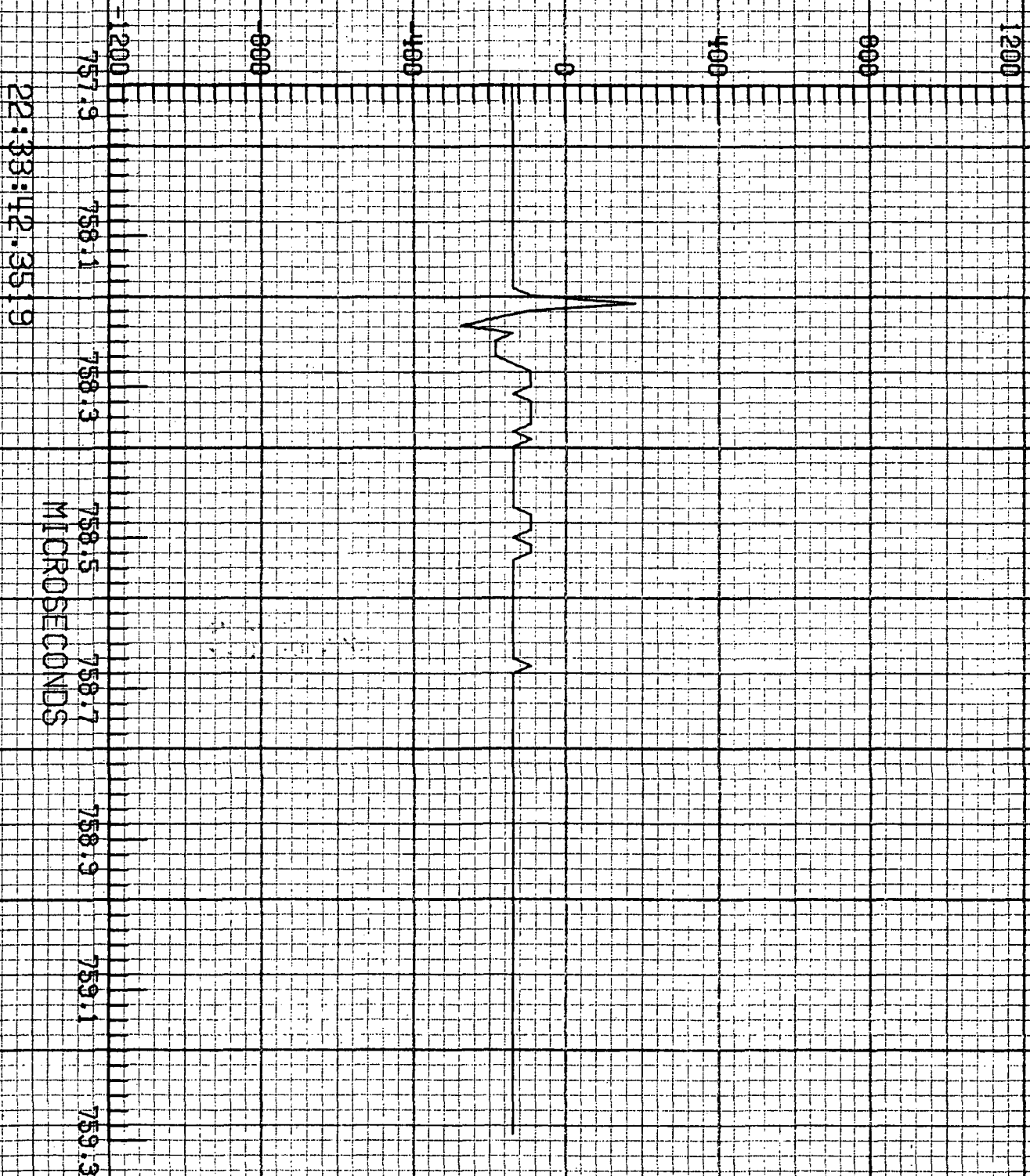
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TEST NO. 83-029

RUN NO. 28

S-016

B DOT L T/S



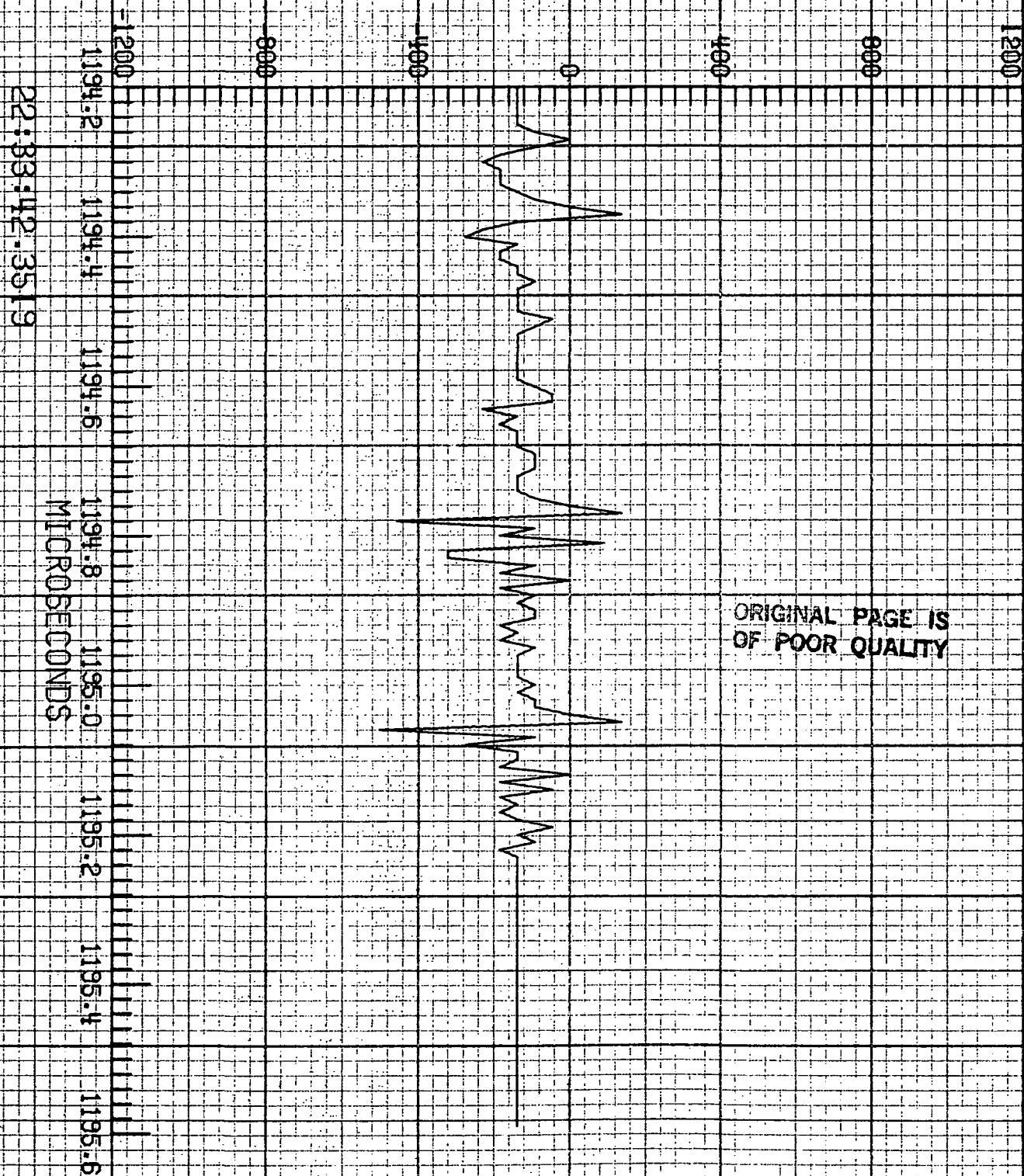
F106 LIGHTNING/TK.10/M.THOMAS

TEST NO. 83-029

RUN NO. 28

S-016

B DOT U T/S

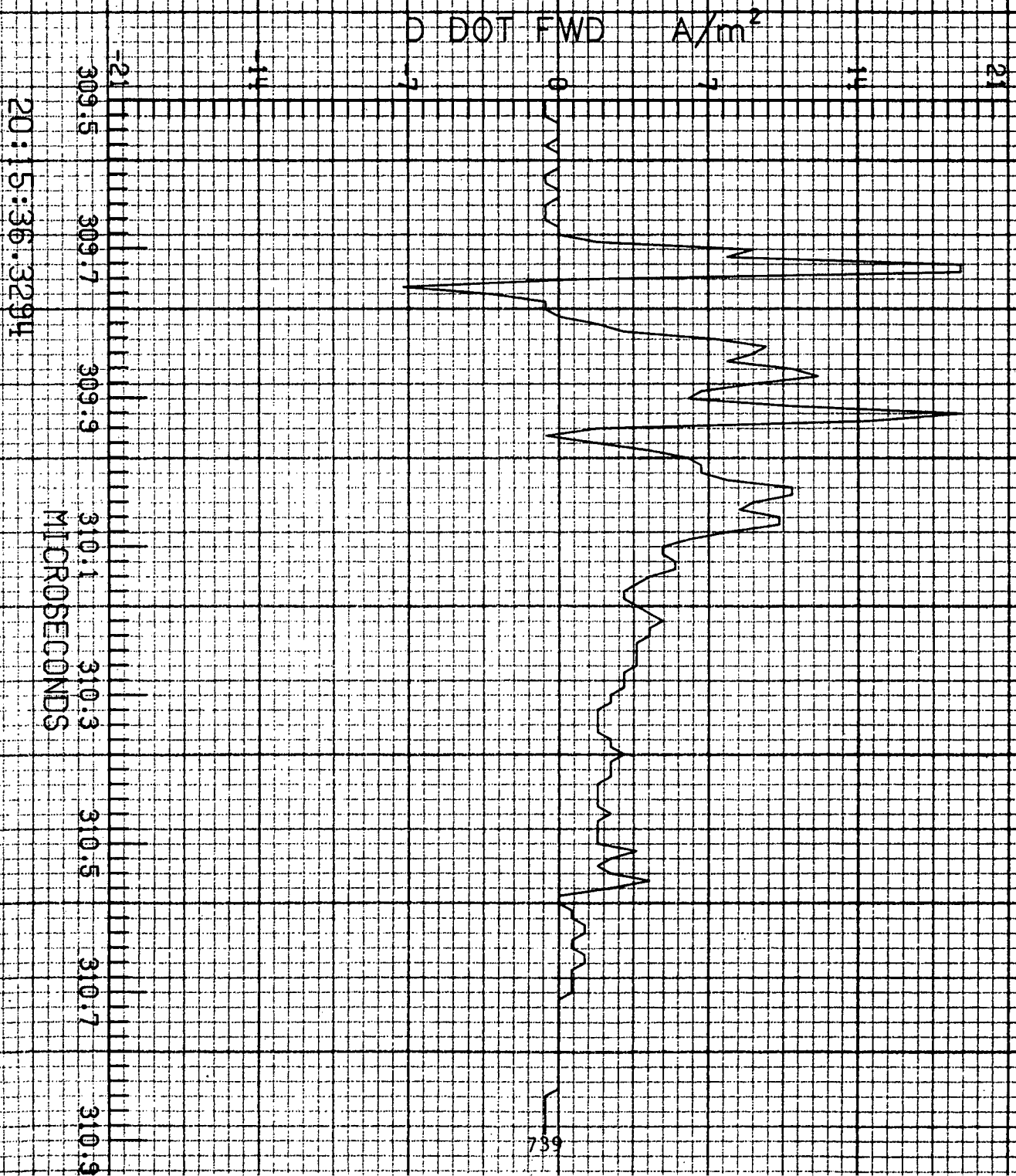


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F106 LIGHTNING TK 8/THOMAS
RUN NO. 1 S-002

TEST NO. 83-03



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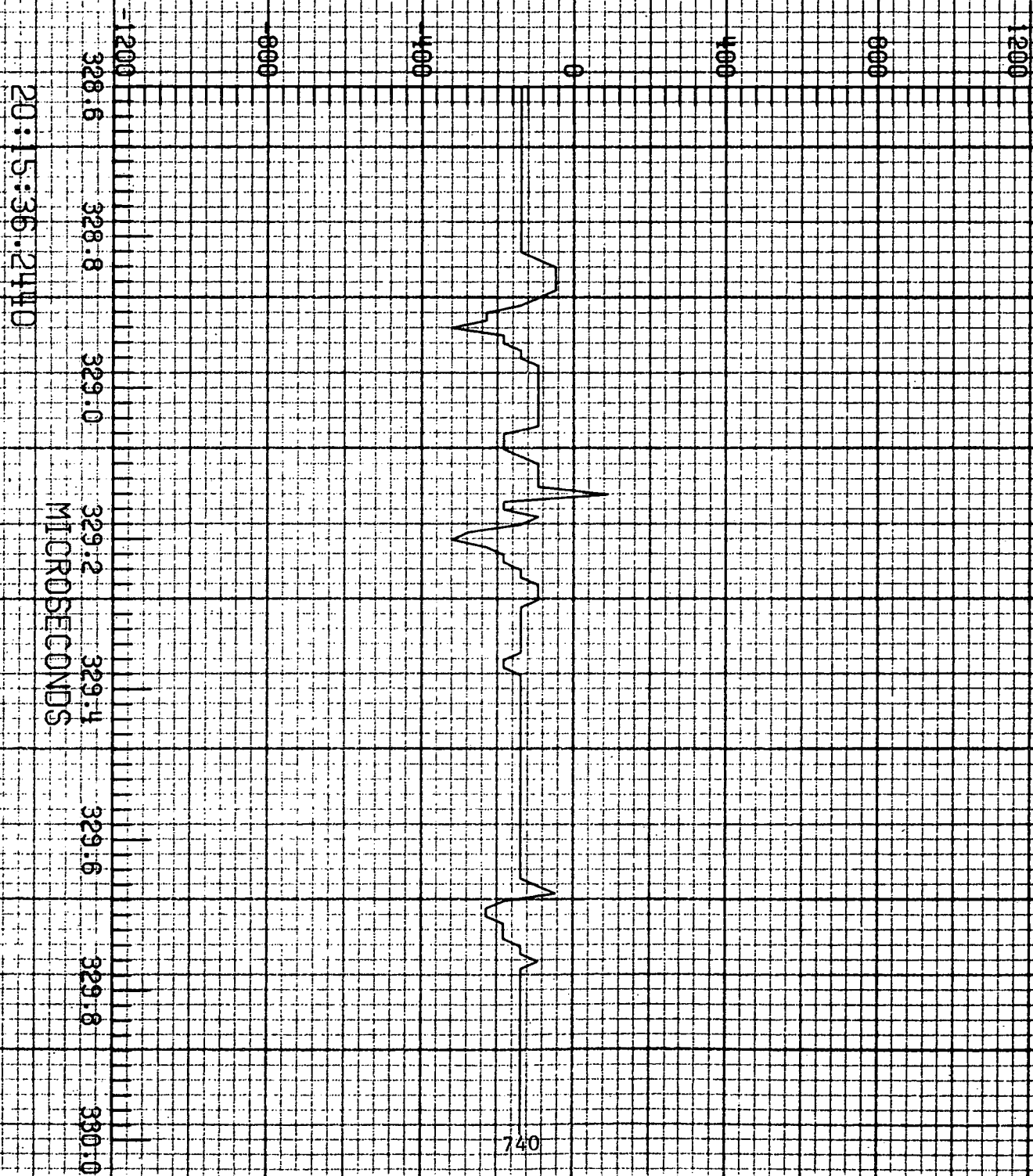
F106 LIGHTNING/TK.10/M.THOMAS

TEST NO. 83-03

RUN NO. 1

S=002

B DOT I T/S



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F106 LIGHTNING TK 8/THOMAS

TEST NO. 83-030

RUN NO. 2

N-001

D DOT FWD A/m^2

20:16:54.9649

MICROSECONDS

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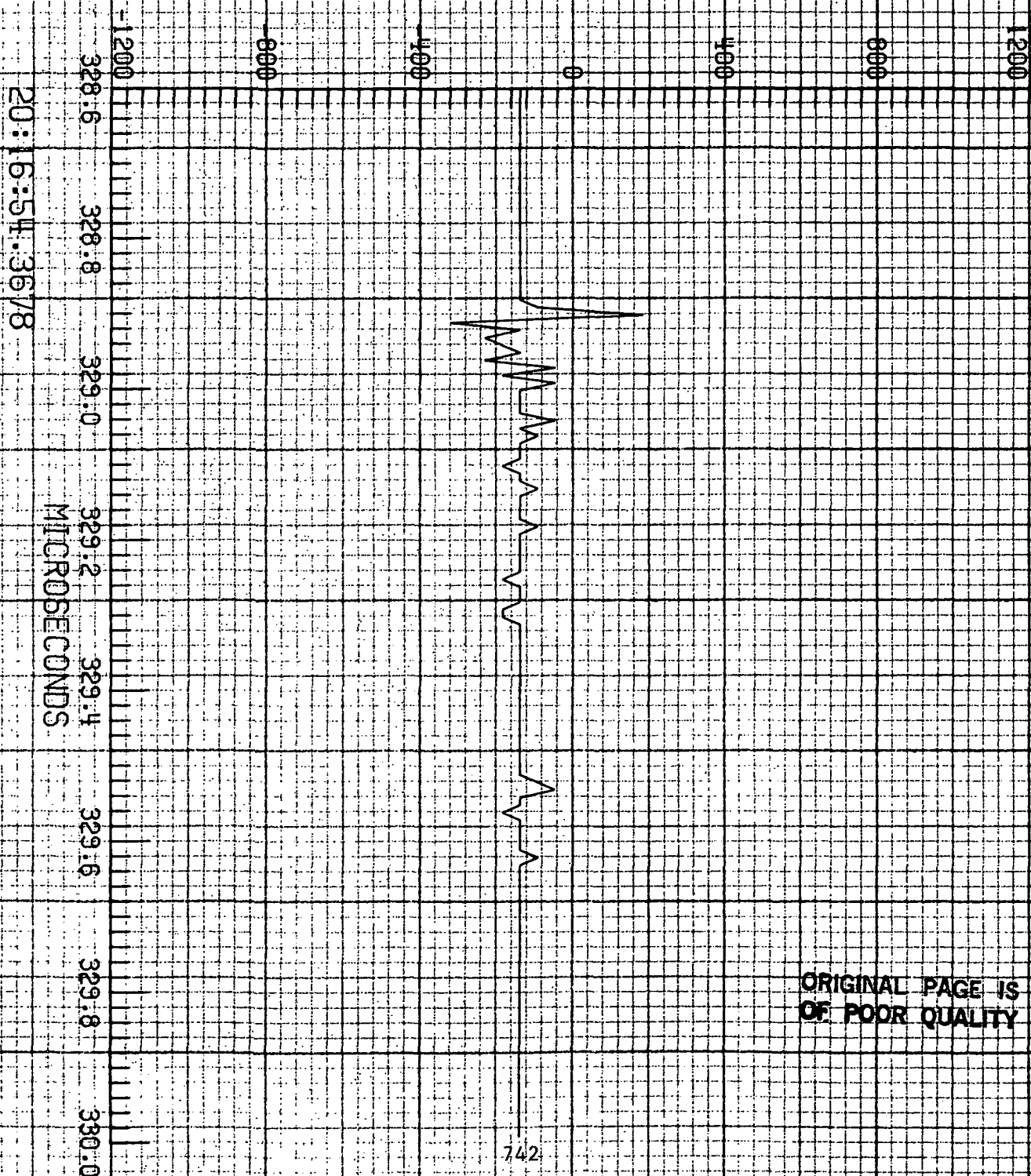
F106 LIGHTNING/TK.10/M.THOMAS

TEST NO. 83-031

RUN NO. 2

N=001

B DOT I T/S



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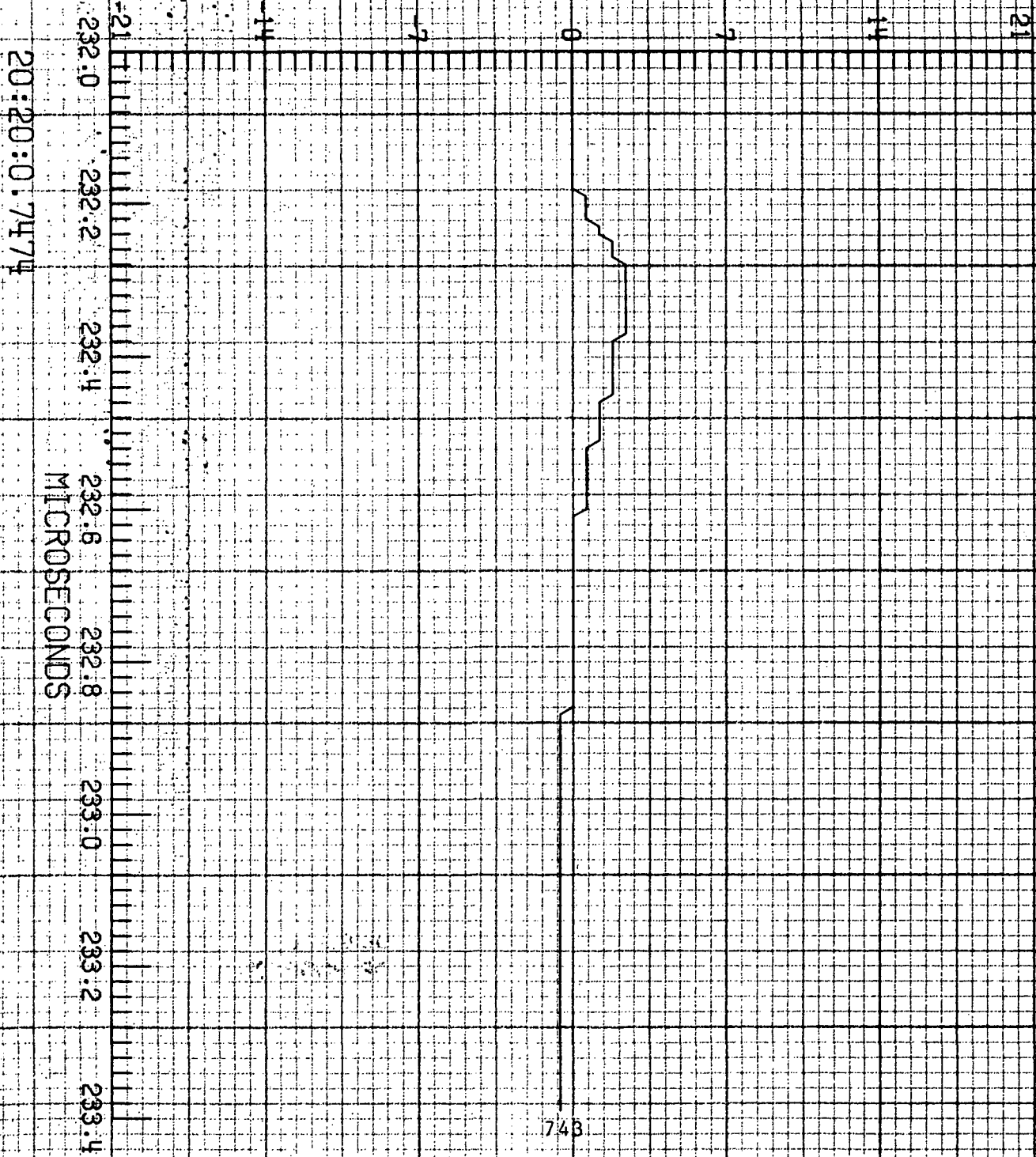
F106 LIGHTNING TK 8/THOMAS

TEST NO. 83-030

RUN NO. 3

S-003

D DOT FWD A/m^2



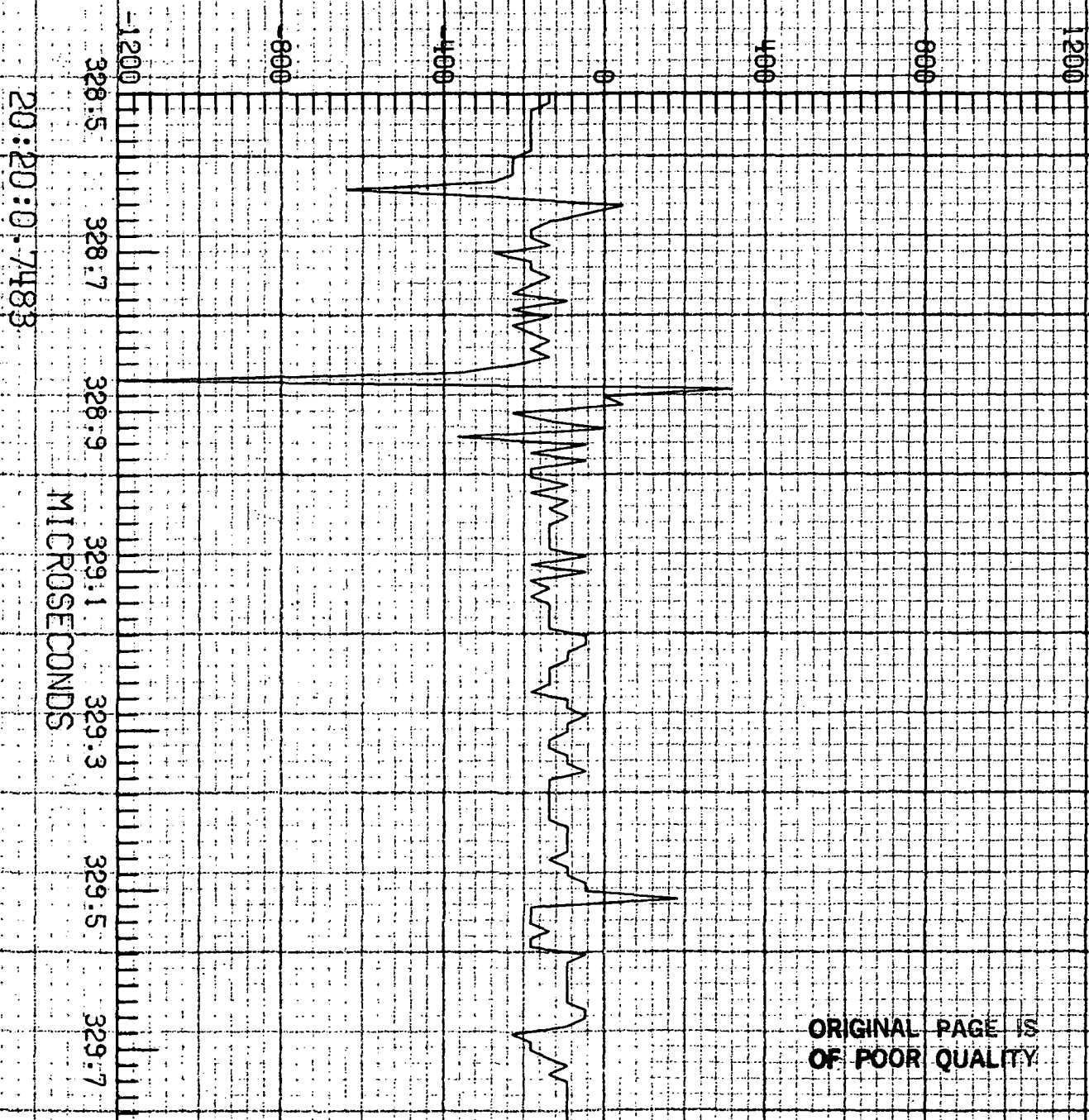
F106 LIGHTNING/TK.10/M.THOMAS

TEST NO. 83-030

RUN NO. 3

S-003

B DOT L T/S



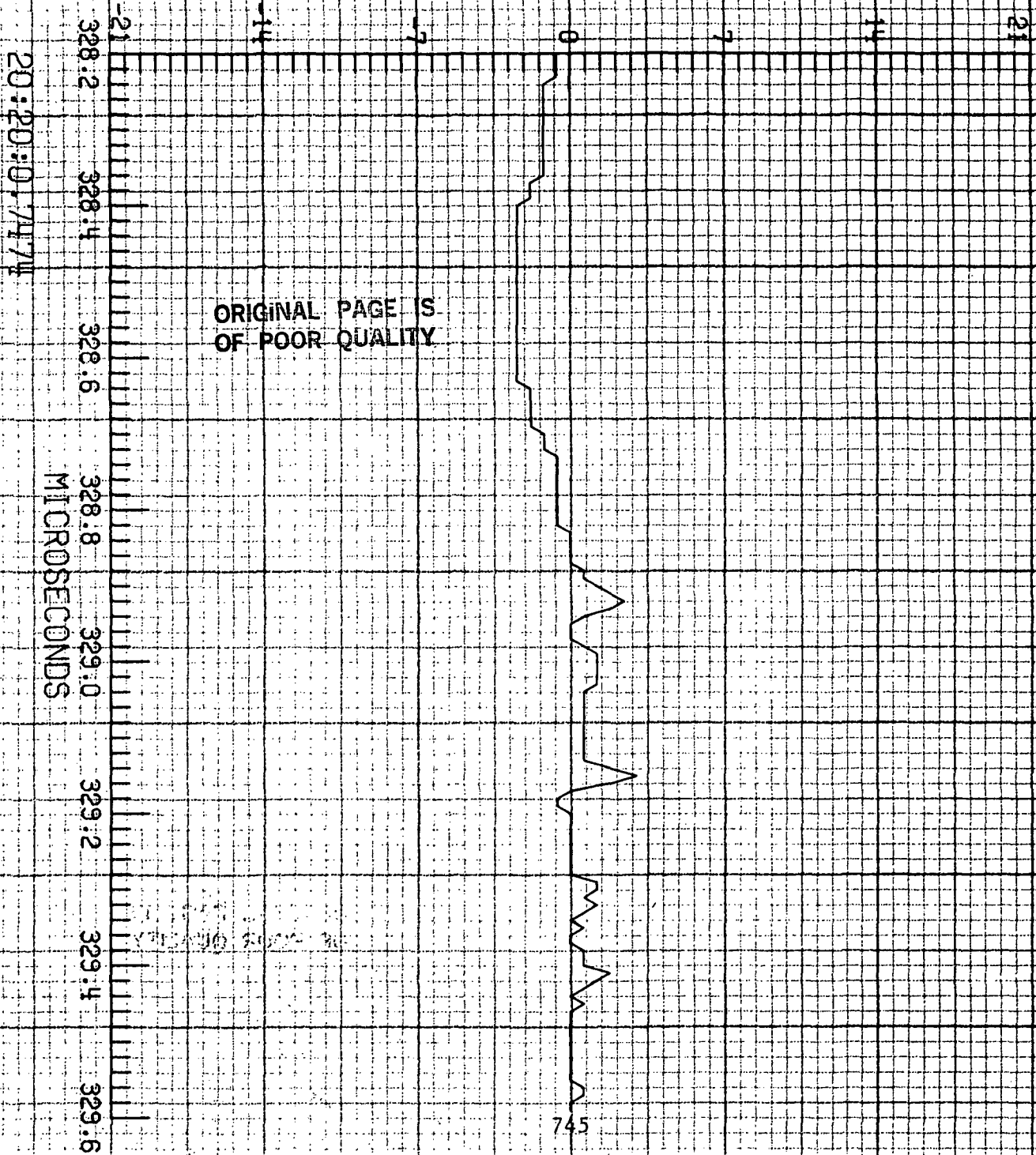
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F106 LIGHTNING TK 8/THOMAS
RUN NO. 8 S-003

TEST NO. 83-030

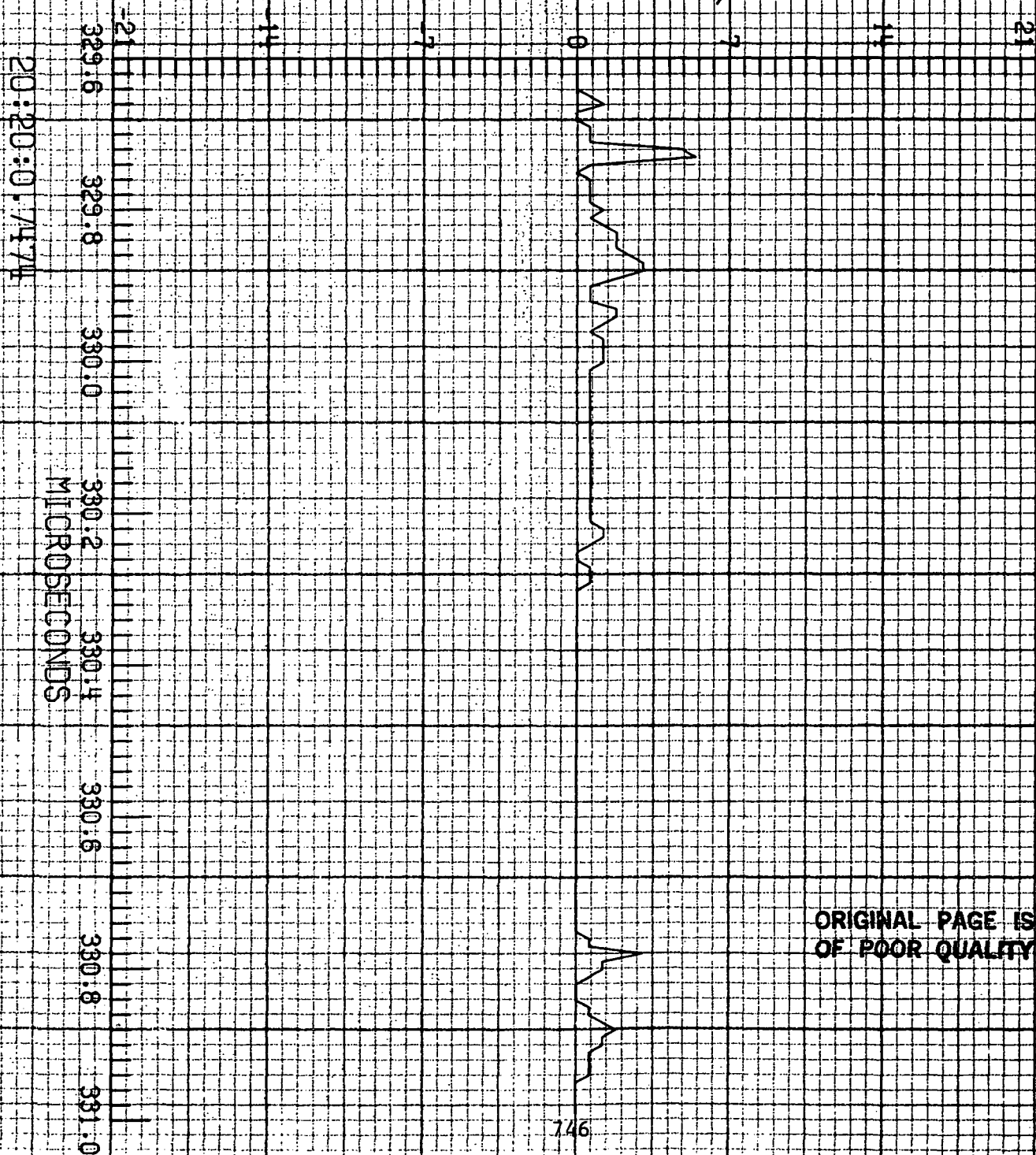
D-DOT FWD A/m^2



F106 LIGHTNING TK 8/THOMAS
RUN NO. 3 S-003

TEST NO. 83-030

D DOT FWD A/m^2



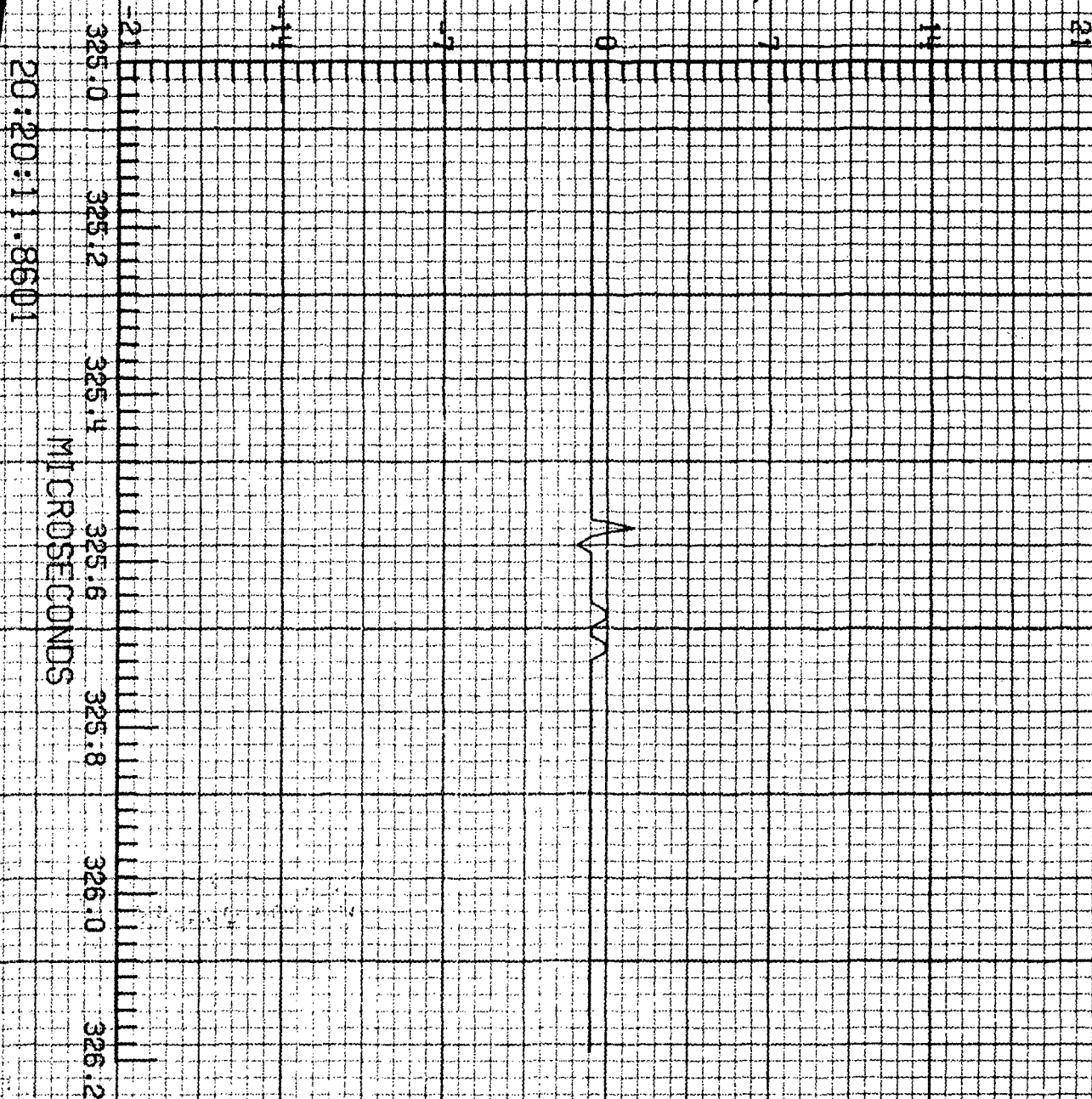
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F106 LIGHTNING TK 8/THOMAS
RUN NO. 4 S-005

TEST NO. 83-030

D DOT FWD A/m^2



F106 LIGHTNING TK 8/THOMAS
RUN NO. 4 S-005

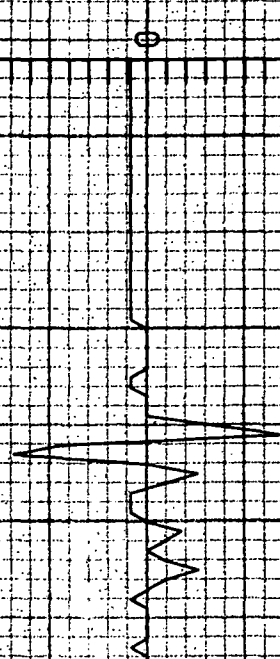
TEST NO. 83-030

D DOT FWD A/m^2

20:20:11.8601

MICROSECONDS

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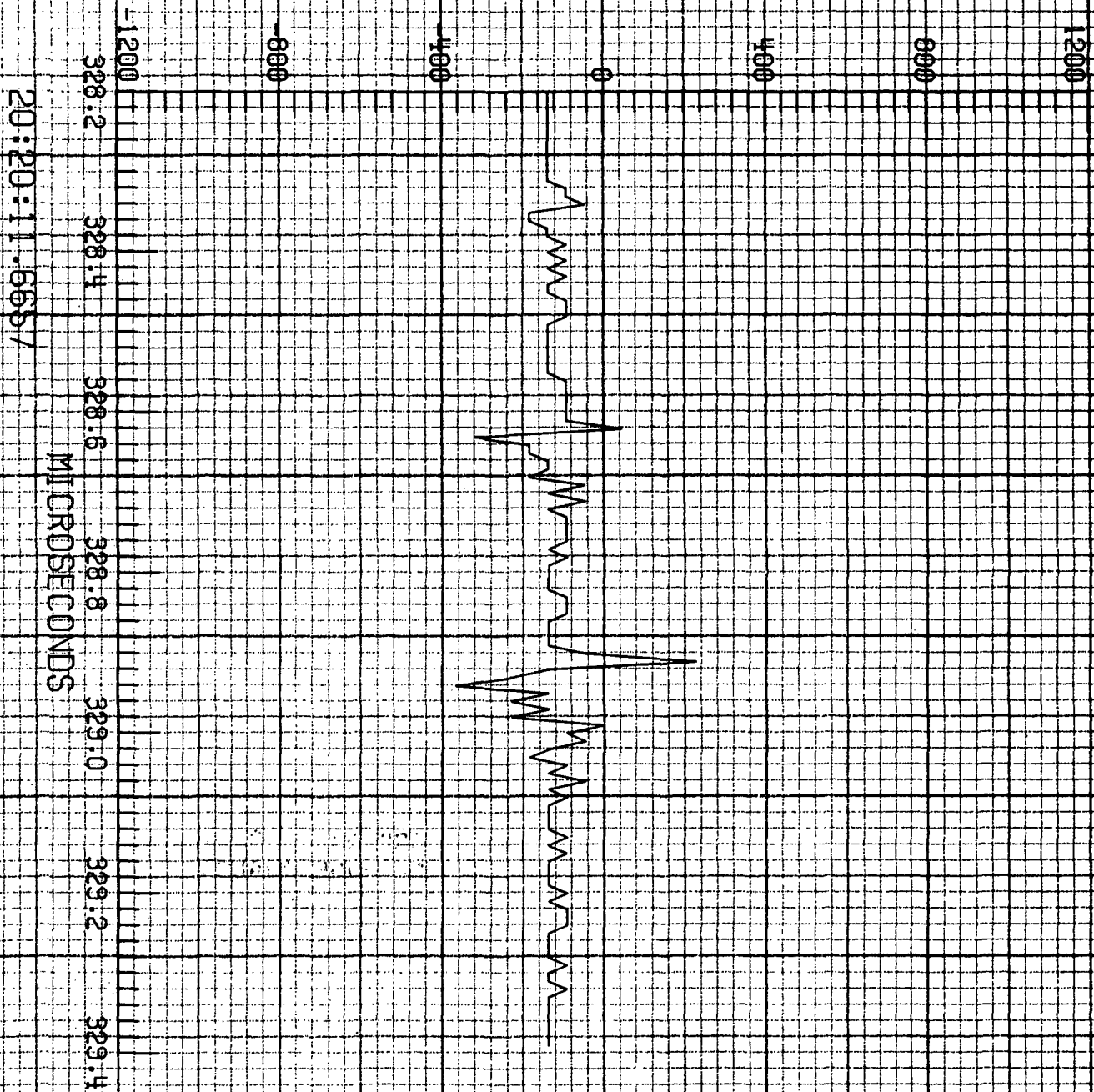
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F106 LIGHTNING/TK.10/M.THOMAS
RUN NO. 4 S-005

TEST NO. 83-03

B DOT L T/S



F106 LIGHTNING TK 8/THOMAS

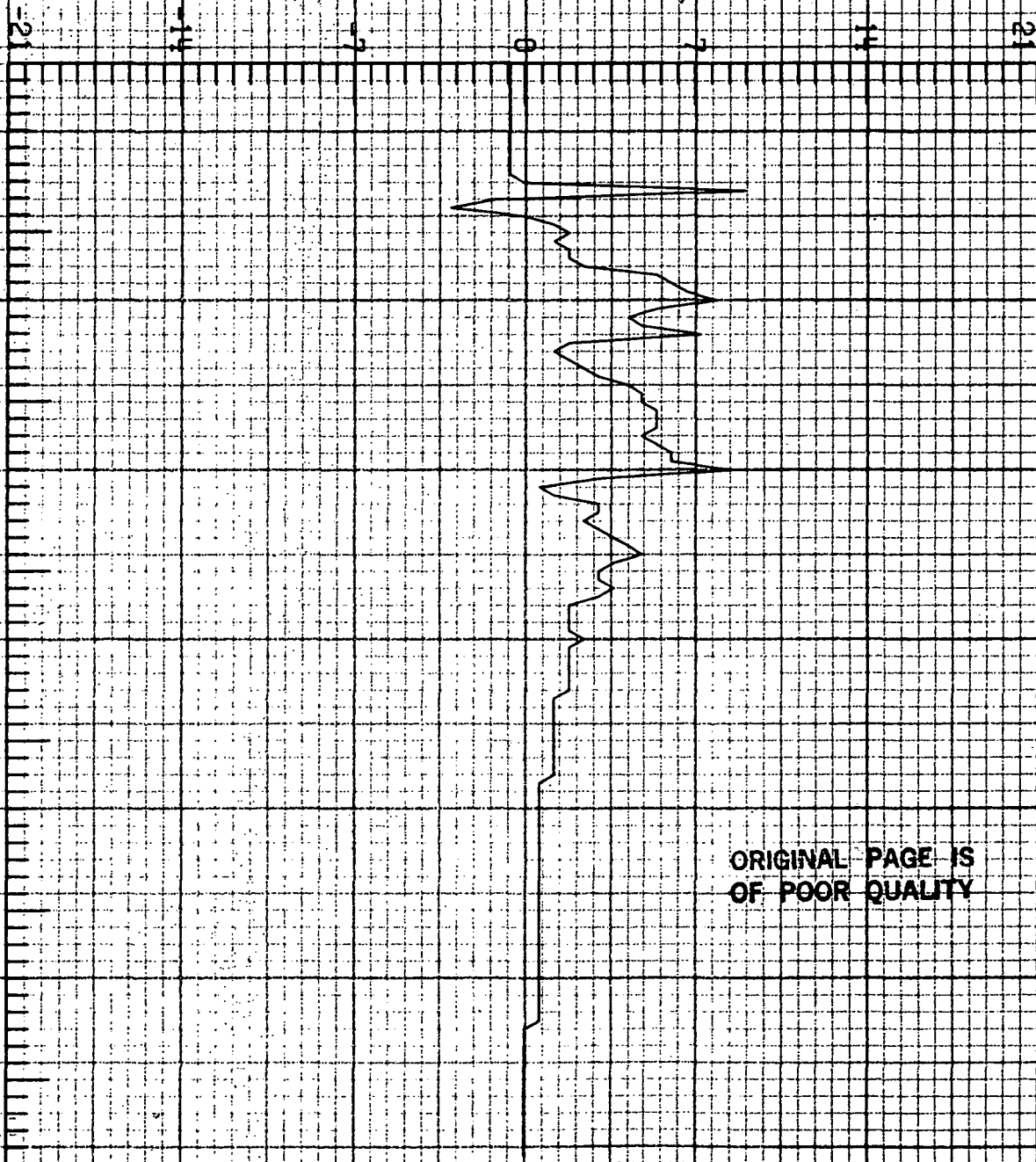
TEST NO. 83-030

RUN NO. 5

S-006

D DOT FWD A/m^2

328.6 328.8 329.0 329.2 329.4 329.6 329.8
20:25:33.2616
MICROSECONDS



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F106 LIGHTNING/TK.10/M.THOMAS

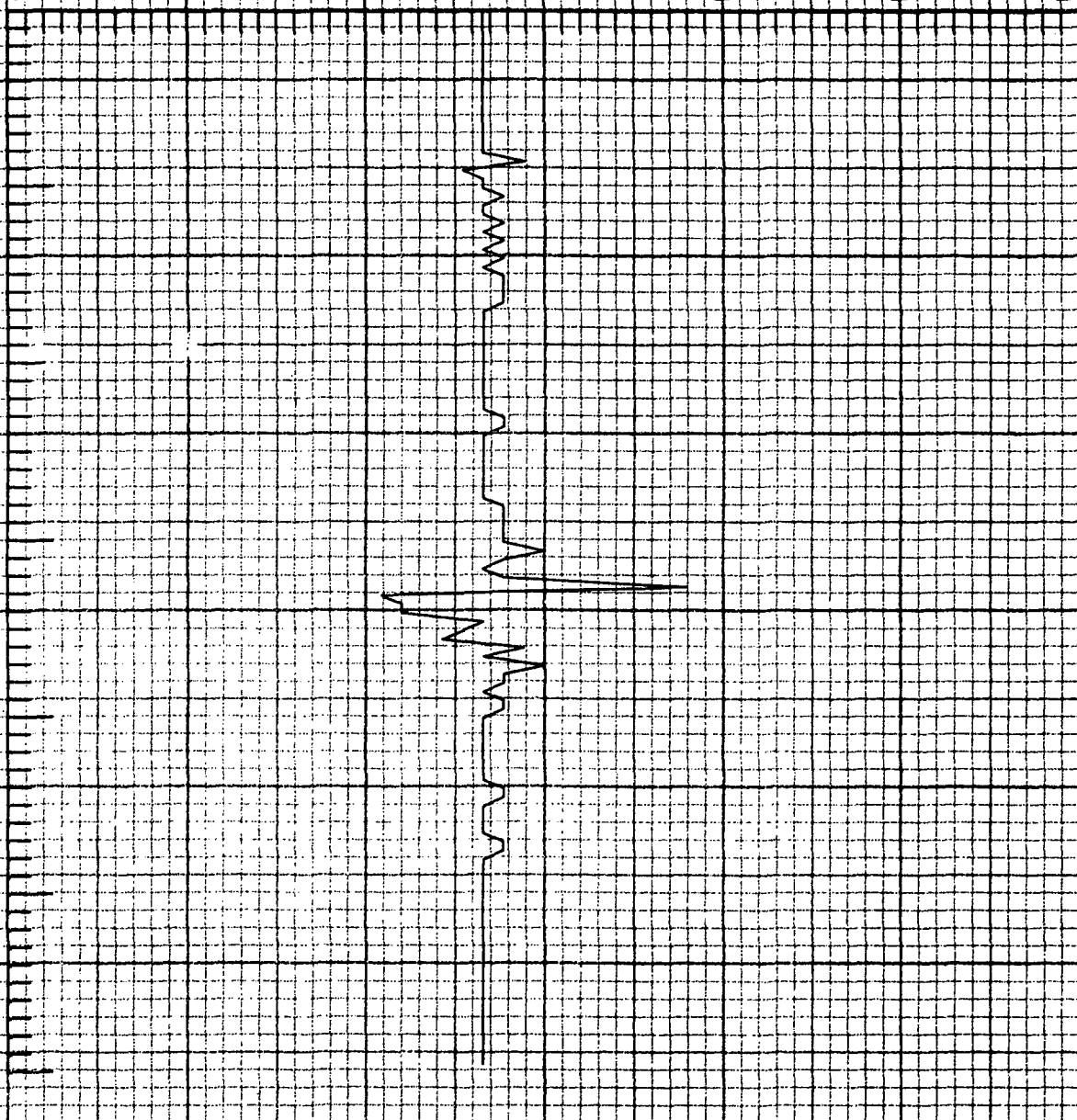
TEST NO. 83-030

RUN NO. 5

S-006

B DOT L T/S

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20:25:33.2259

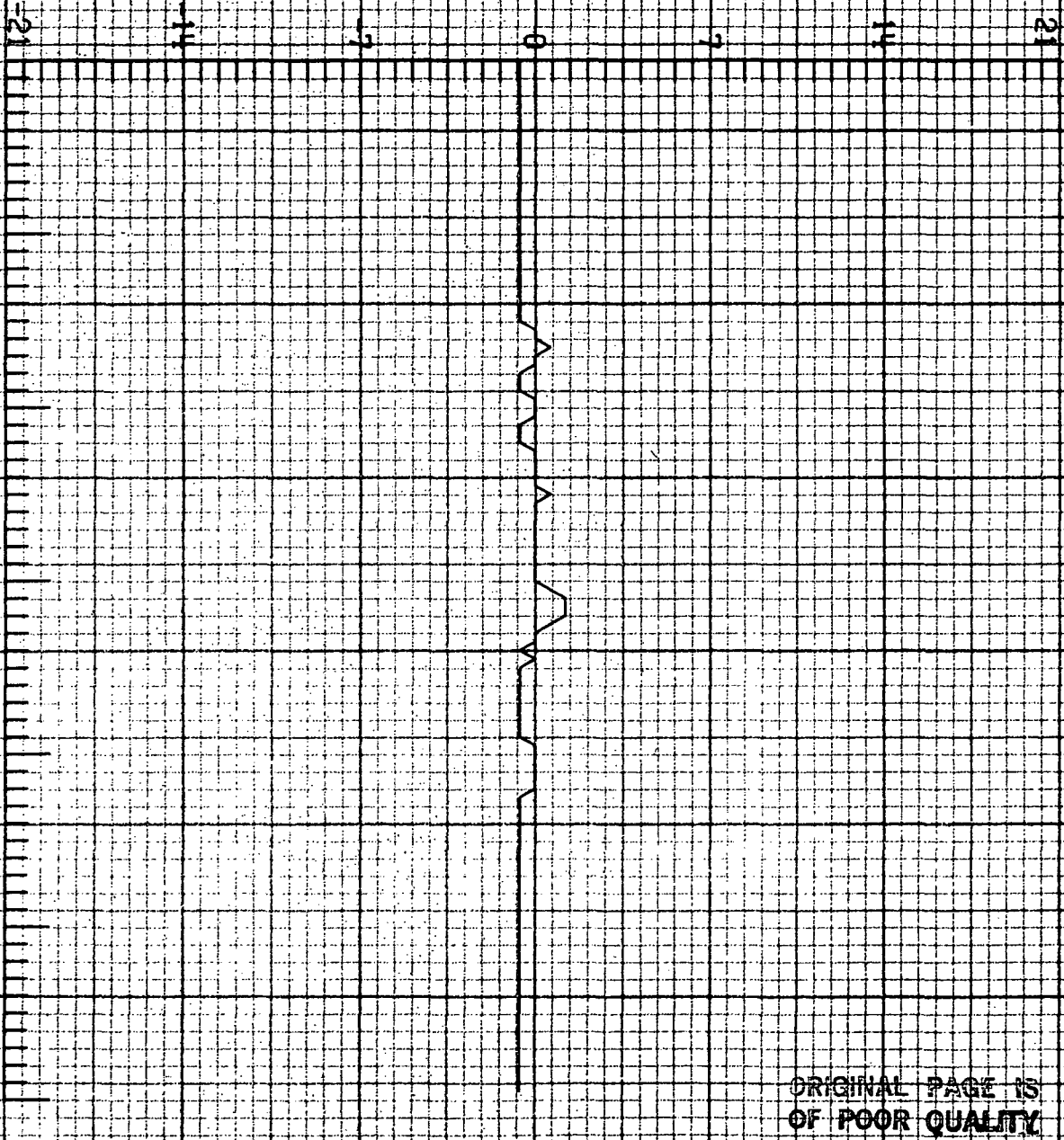
MICROSECONDS

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F106 LIGHTNING TK 8/THOMAS
RUN NO. 5 N-002

TEST NO. 83-030

D DOT FWD A/m^2



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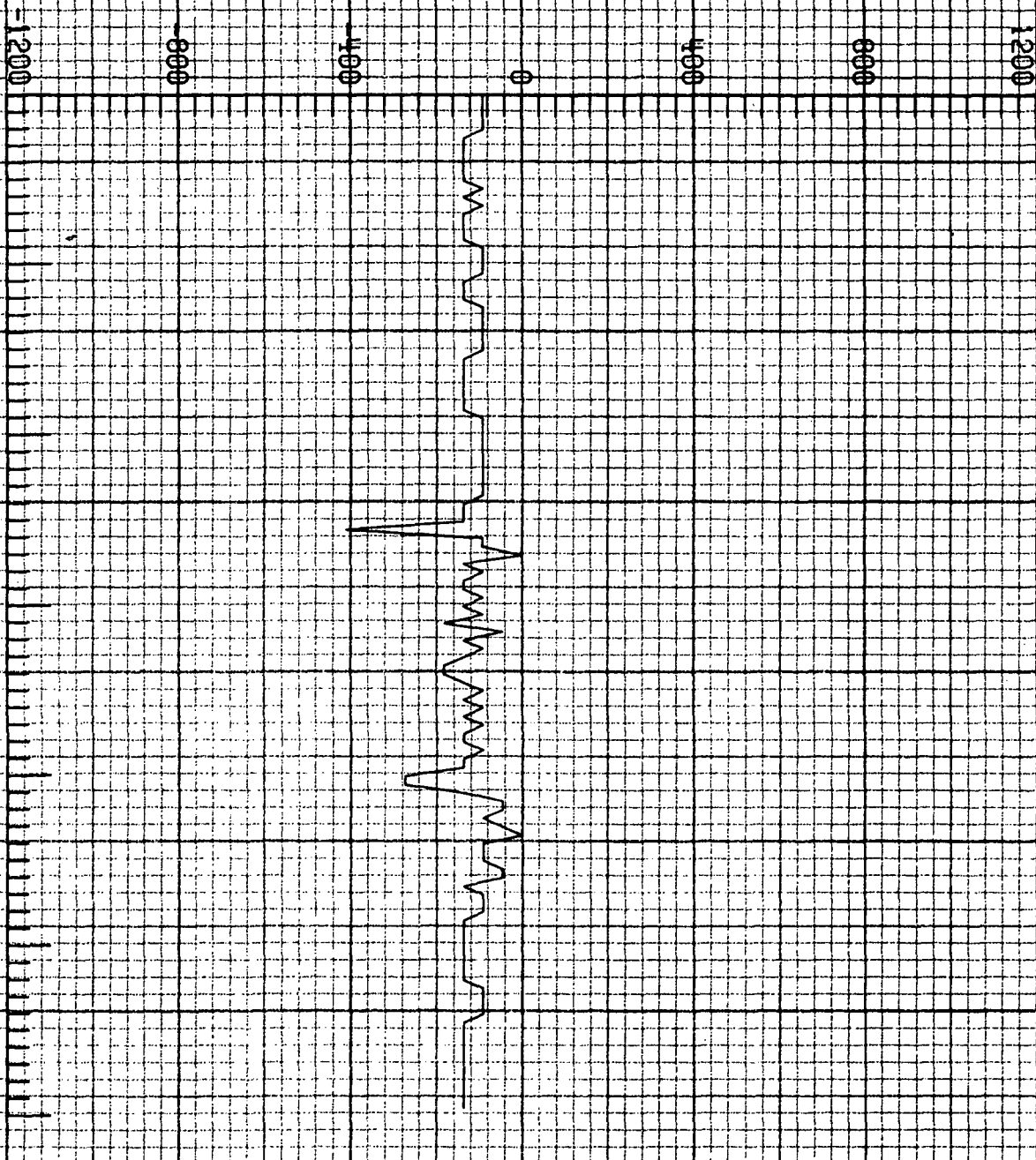
F106 LIGHTNING/TK.10/M.THOMAS

TEST NO. 83-030

RUN NO. 5

N=002

B DOT I T/S



20:26:47.5098

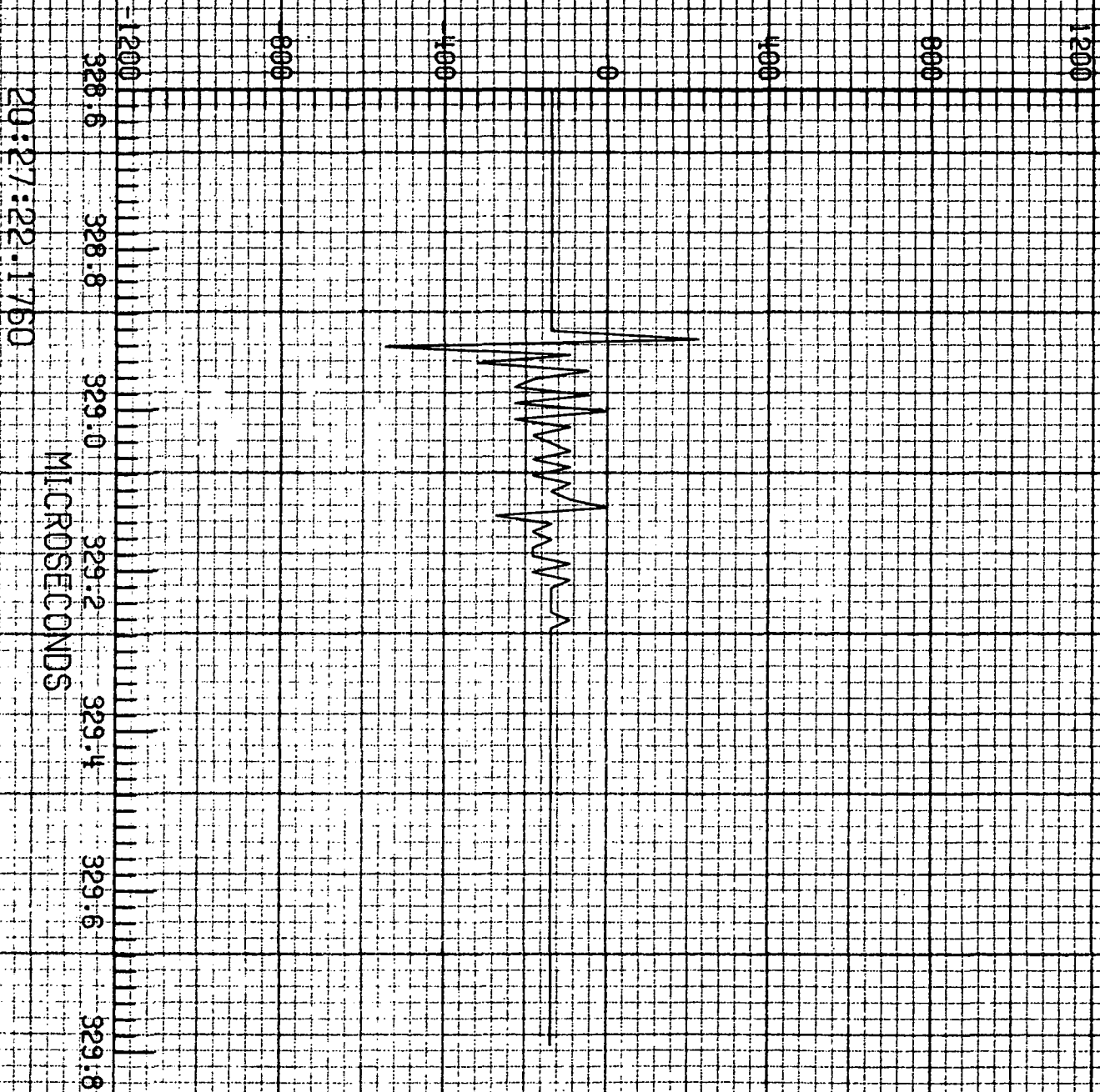
MICROSECONDS

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F106 LIGHTNING/TK.10/M.THOMAS
RUN NO. 7 N-003

TEST NO. 83-031

B DOT L T/S

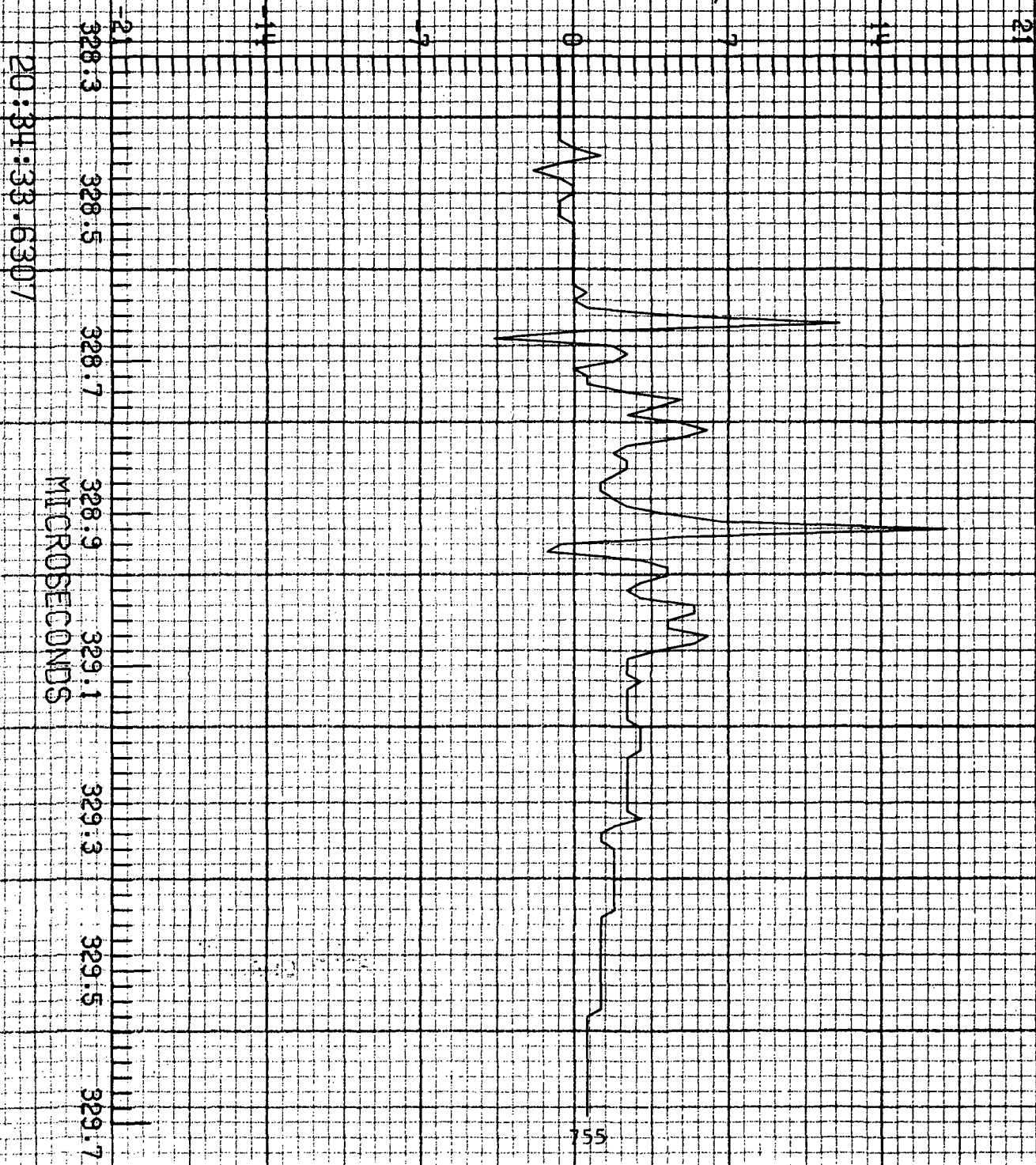


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F106 LIGHTNING TK 8/THOMAS
RUN NO. 8 S-007

TEST NO. 83-030

D DOT FWD A/m^2



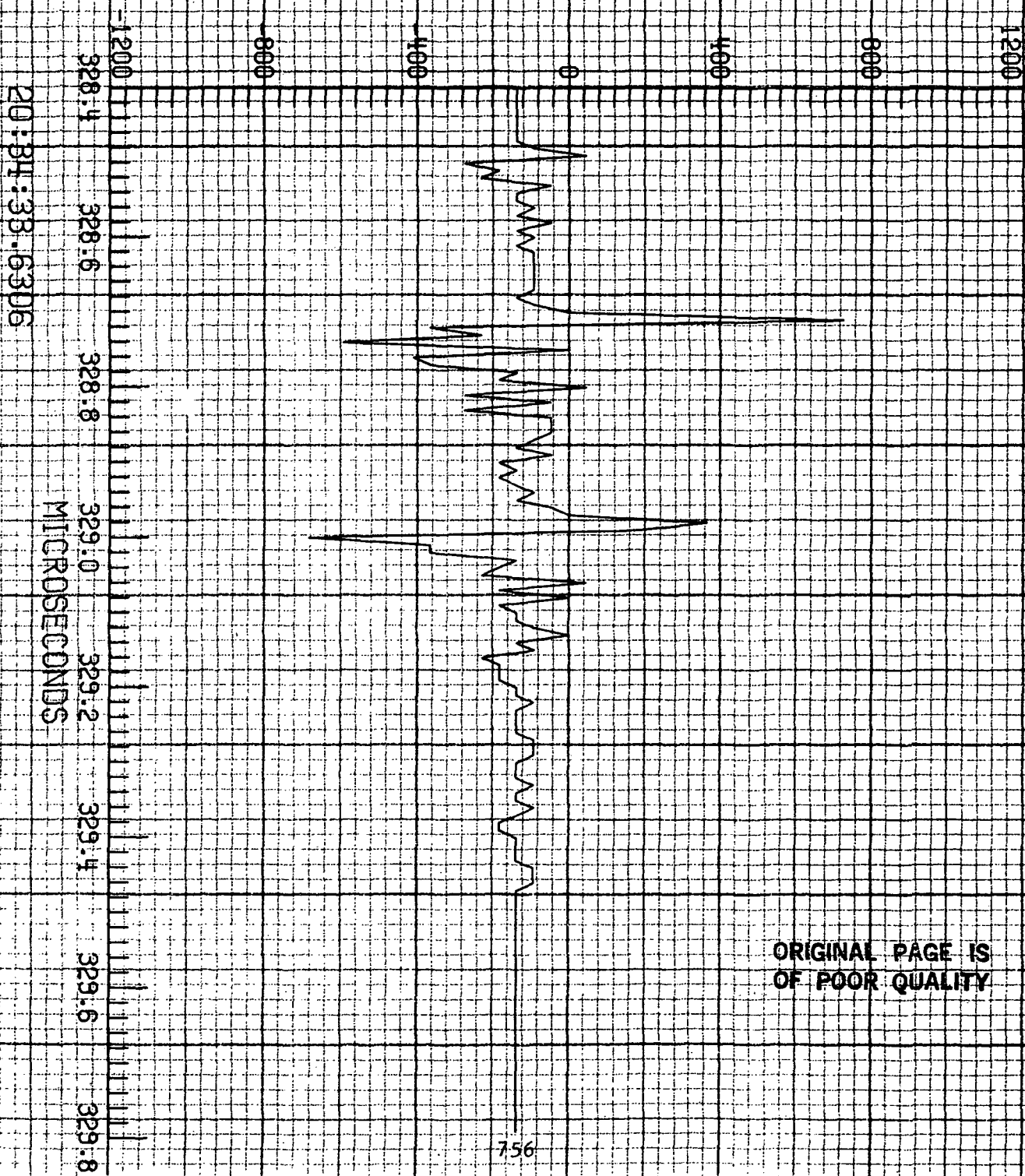
F106 LIGHTNING/TK.10/M.THOMAS

TEST NO. 83-030

RUN NO. 8

S=007

B DOT L T/S

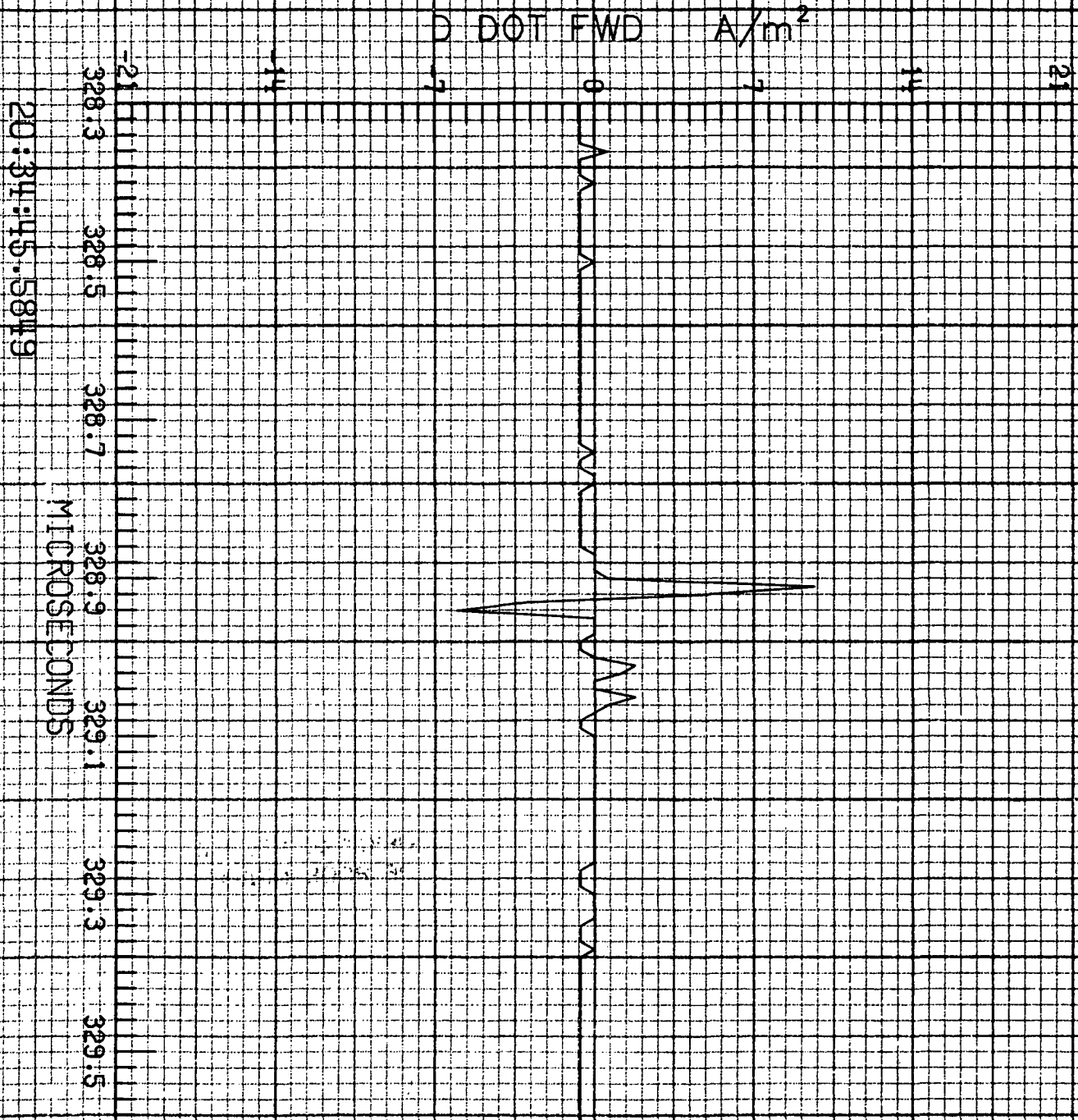


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F106 LIGHTNING TK 8/THOMAS
RUN NO. 8 S-008

TEST NO. 83-030



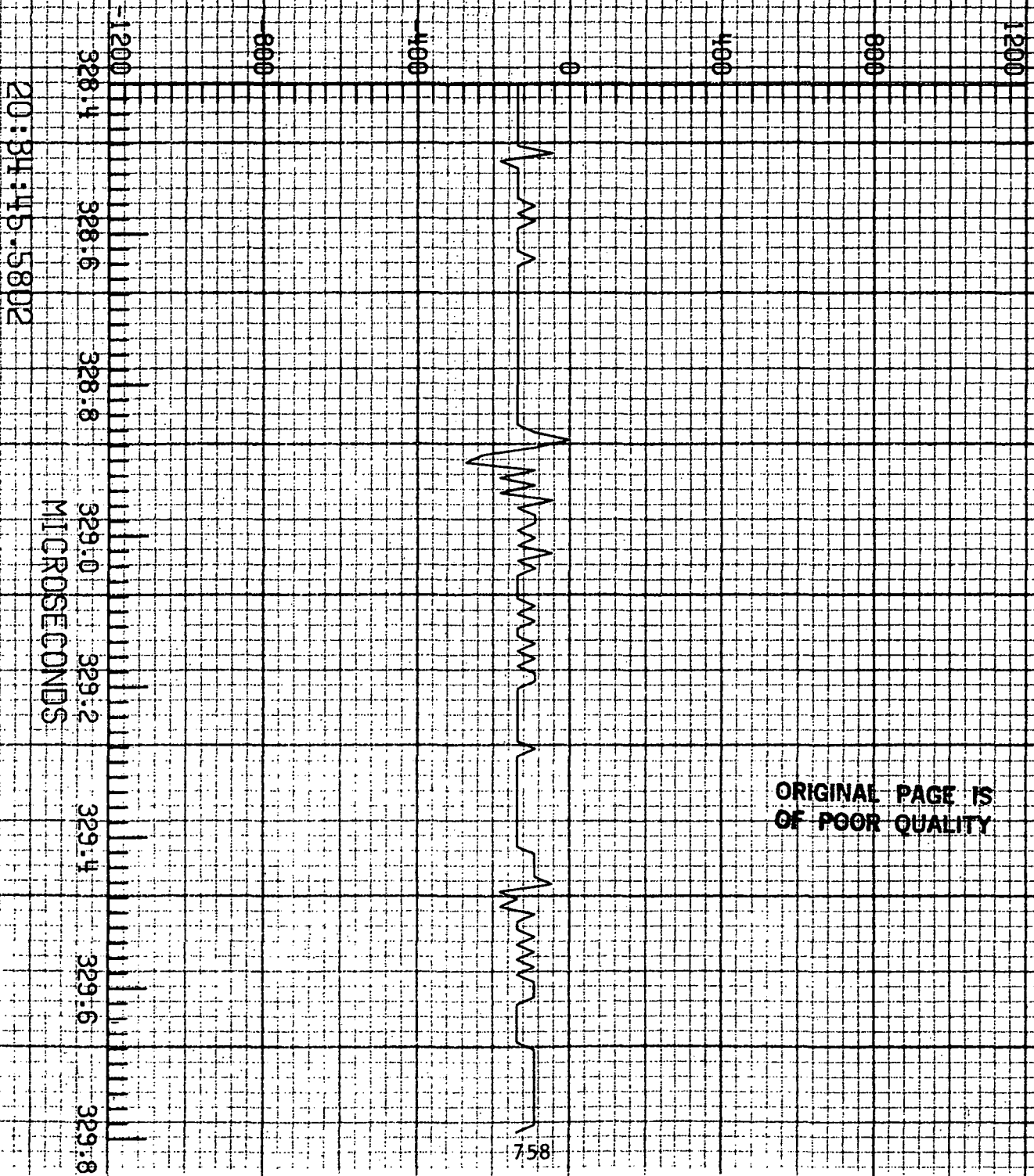
F106 LIGHTNING/TK.10/M.THOMAS

TEST NO. 88-030

RUN NO. 8

S-008

B DOT L T/S

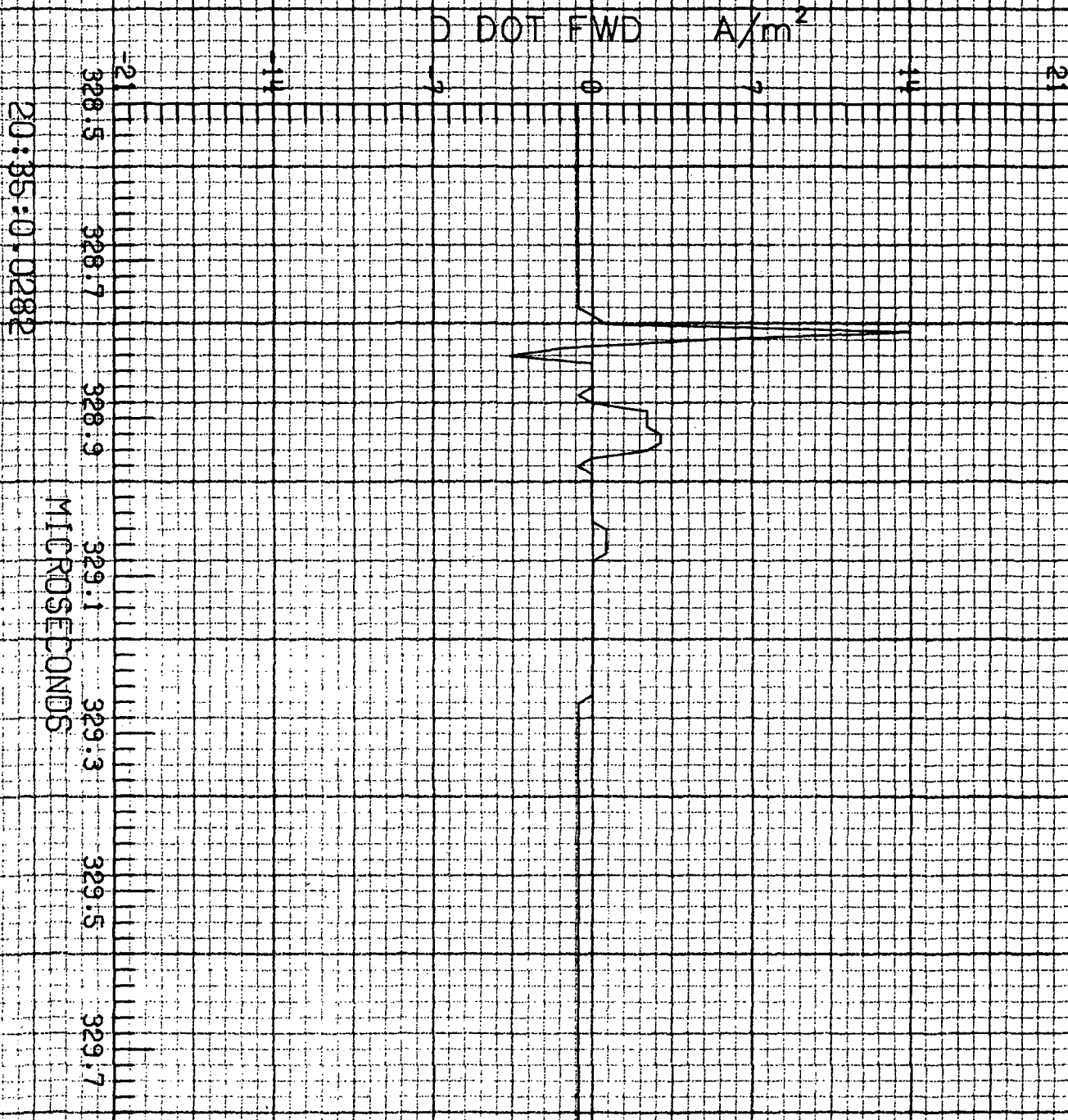


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F106 LIGHTNING TK 8/THOMAS
RUN NO. 10 S-009

TEST NO. 83-030



F106 LIGHTNING/TK.10/M.THOMAS

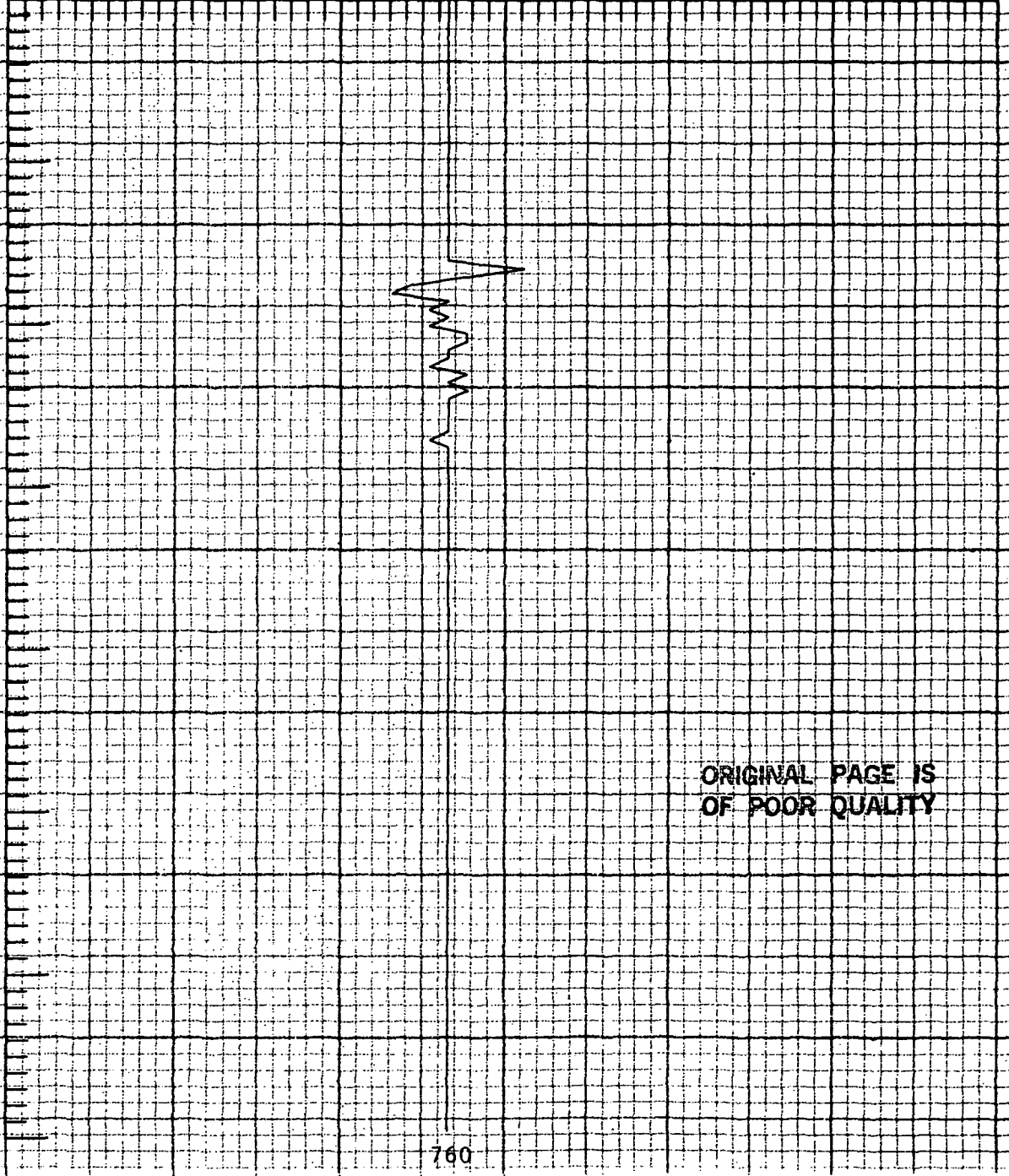
TEST NO. 83-030

RUN NO. 10

S-009

B DOT L T/S

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20:34:59.7904

MICROSECONDS

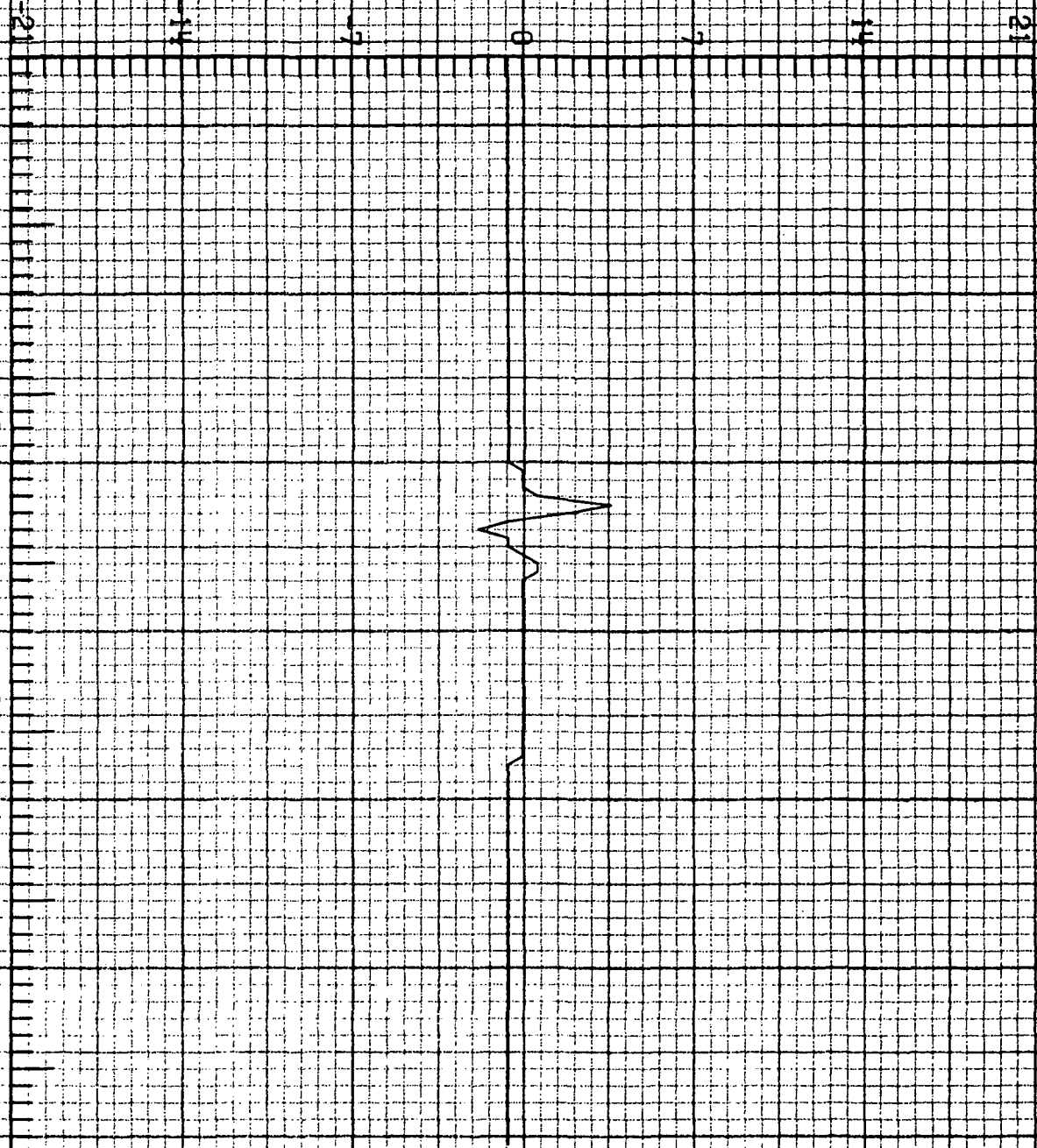
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F106 LIGHTNING TK 8/THOMAS
RUN NO. 10 S-009

TEST NO. 83-030

D DOT FWD A/m^2



20:35:0.0282

MICROSECONDS

F106 LIGHTNING/TK.10/M.THOMAS

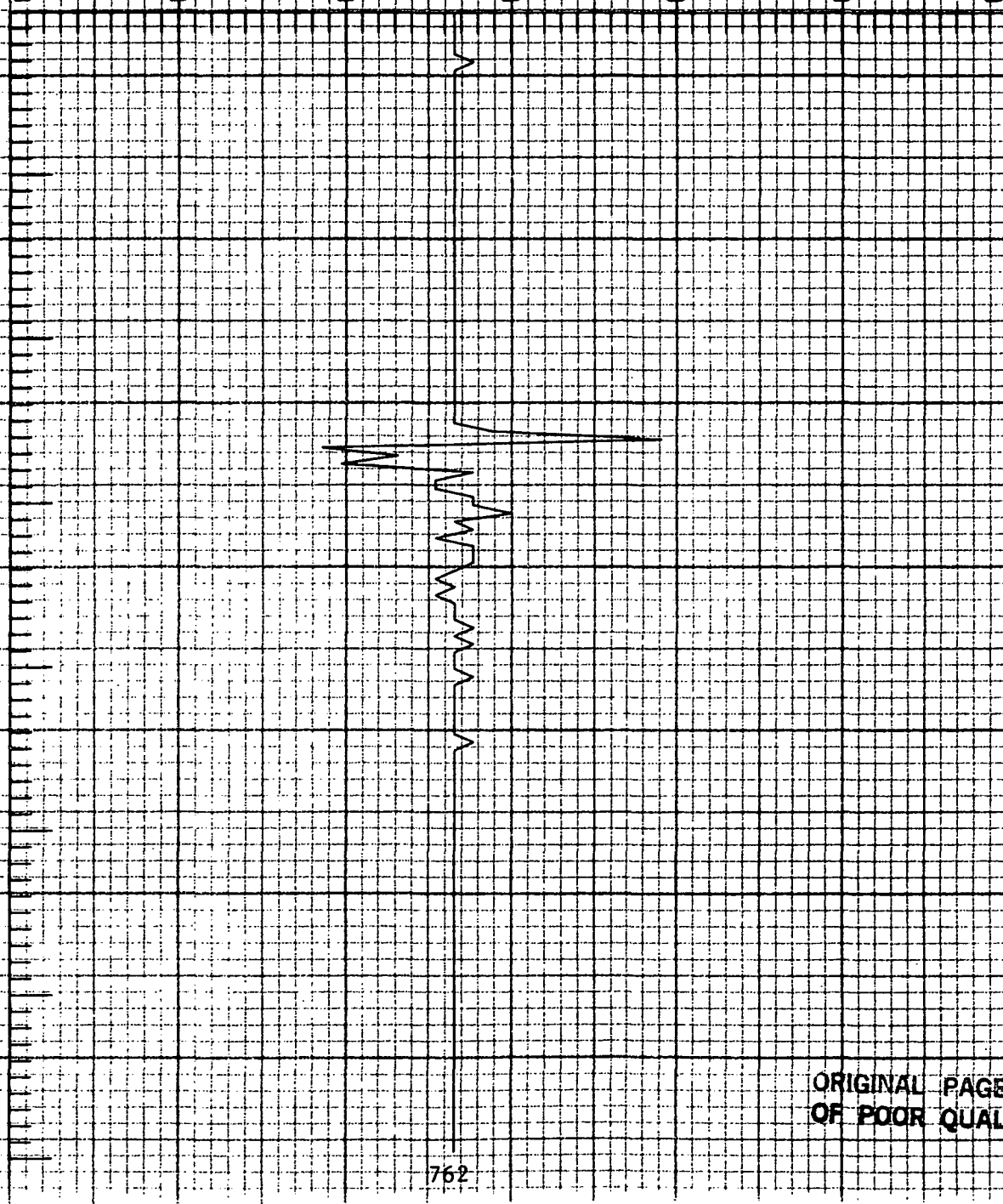
TEST NO. 83-030

RUN NO. 11

N=004

B DOT L T/S

1200
800
400
0
400
800
1200



20:40:08.3049

MICROSECONDS

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ORIGINAL PAGE IS
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F106 LIGHTNING TK 8/THOMAS
RUN NO. 12 S-010

TEST NO. 83-030

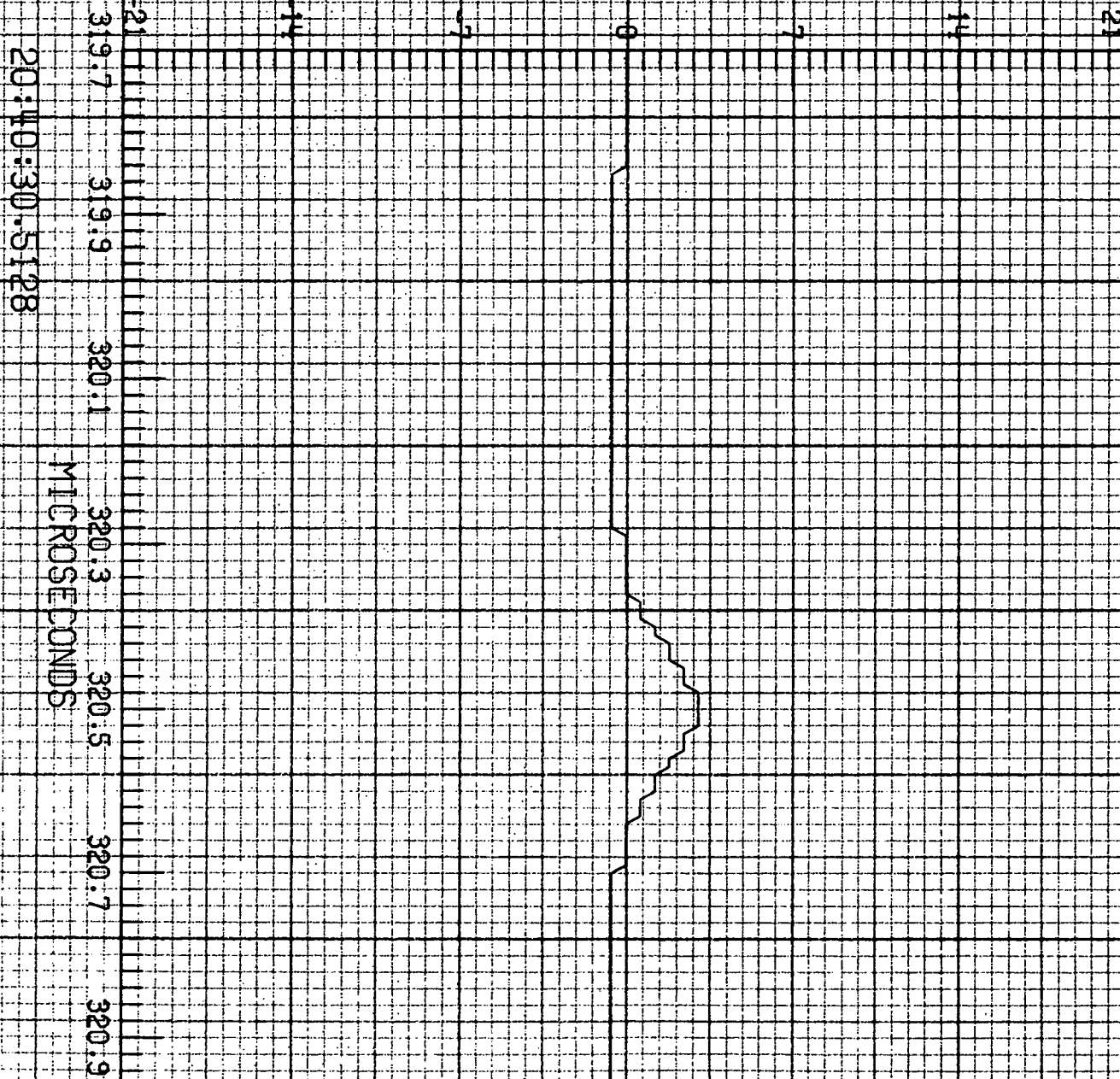
D DOT FWD A/m^2



F106 LIGHTNING TK 8/THOMAS
RUN NO. 12 S-010

TEST NO. 83-030

D DOT FWD A/m^2



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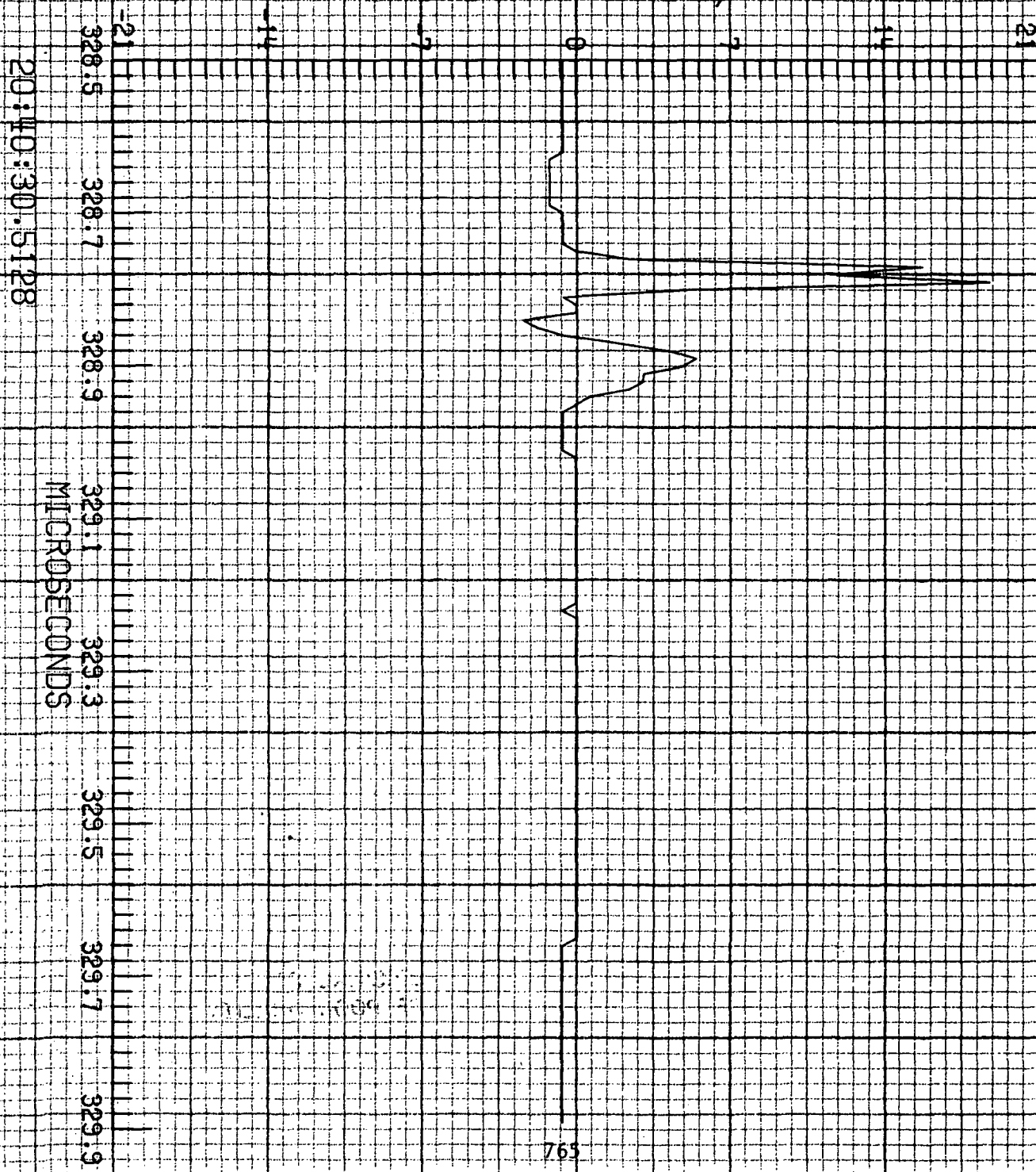
F106 LIGHTNING TK 8/THOMAS

TEST NO. 83-030

RUN NO. 12

S=010

D DOT FWD A/m^2



F106 LIGHTNING/TK-10/M. THOMAS

TEST NO. 83

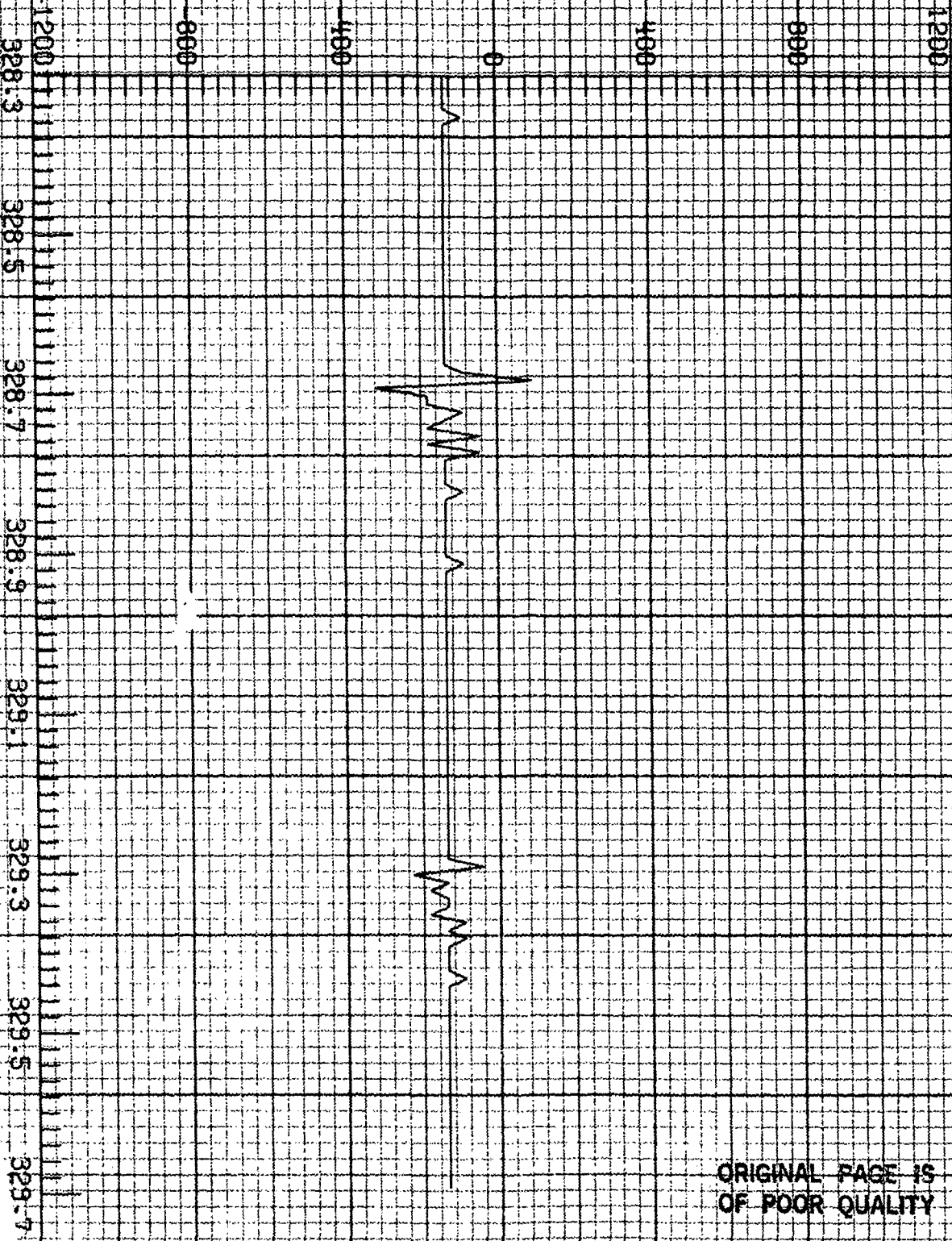
RUN NO. 12

S-010

B DOT L T/S

20:40:30.1088

MICROSECONDS



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F106 LIGHTNING TK 8/THOMAS
RUN NO. 12 S-010

TEST NO. 83-030

D DOT FWD A/m^2

ORIGINAL PAGE IS
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20:40:30.5128

MICROSECONDS

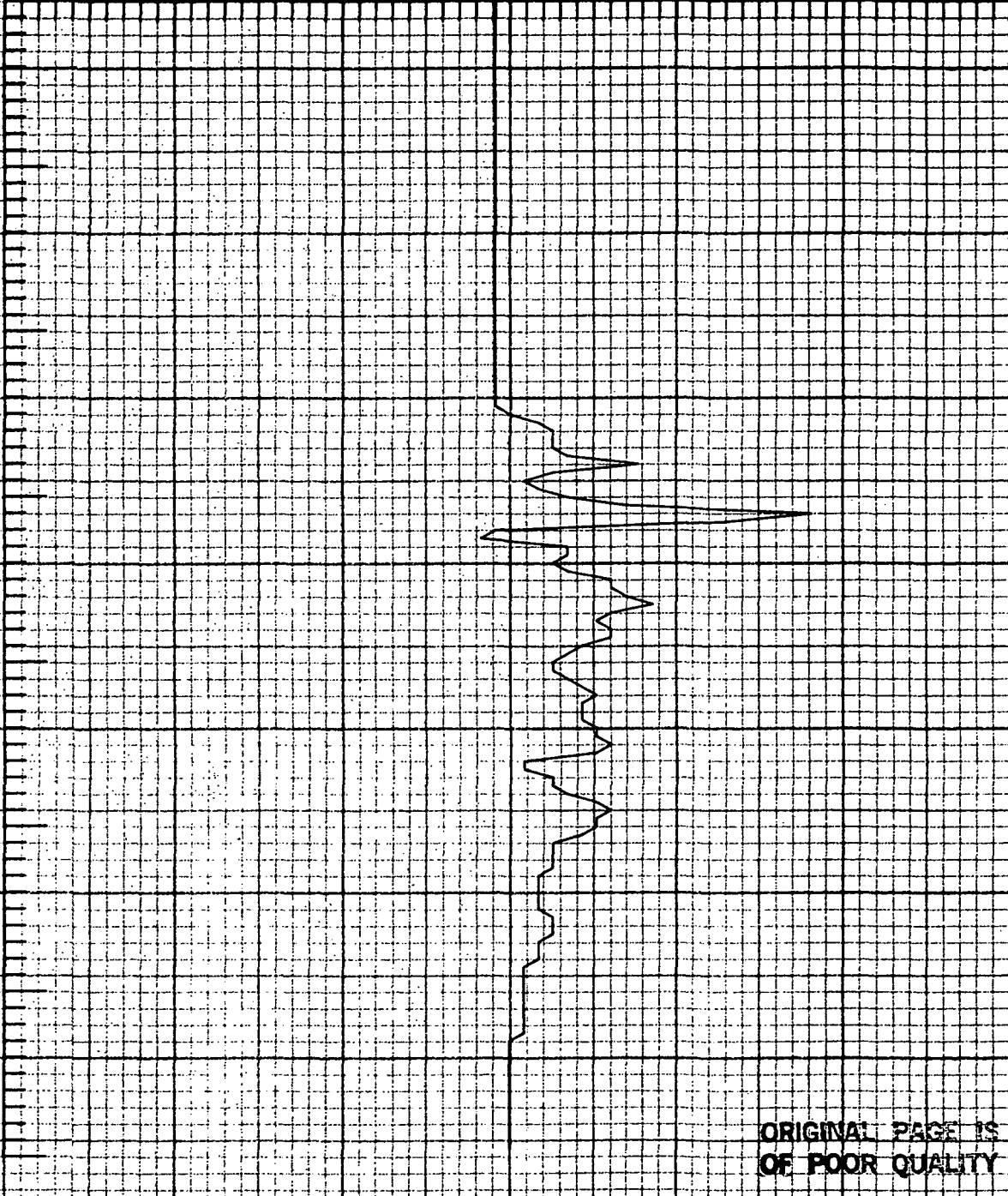
386.5
386.7
386.9
387.1
387.3
387.5
387.7
387.9

F106 LIGHTNING TK 8/THOMAS
RUN NO. 13 S-011

TEST NO. 83-030

D DOT FWD A/m^2

-21 0 21



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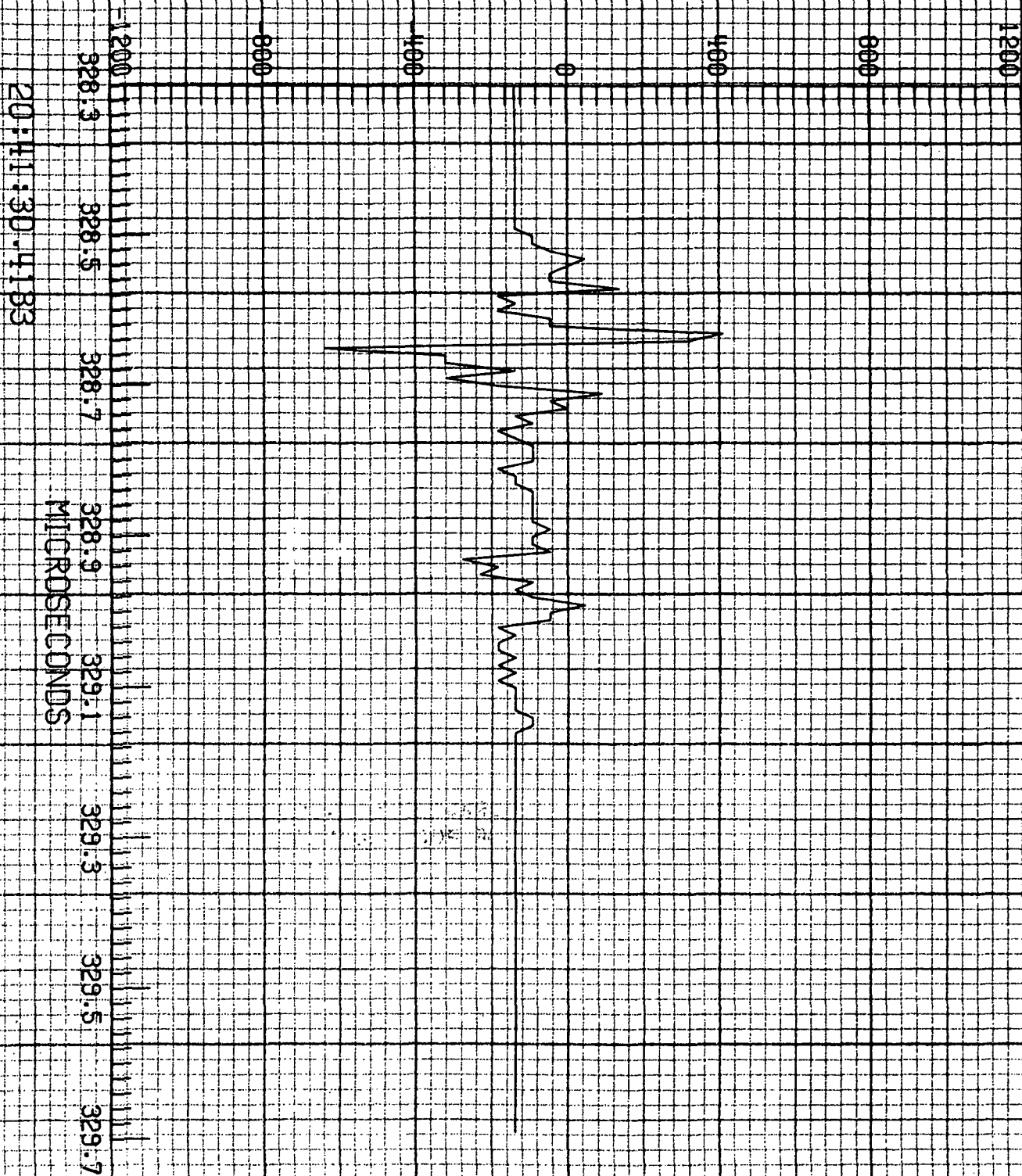
F106 LIGHTNING/TK-10/M.THOMAS

TEST NO. 83-030

RUN NO. 13

S=011

B DOT U T/S



F106 LIGHTNING/TK.10/M.THOMAS

TEST NO. 83-030

RUN NO. 14

N-005

B DOT L T/S

-1200
-800
-400
0
400
800
1200

200.7
200.9
201.1
201.3
201.5
201.7
201.9

20:52:26.2550

MICROSECONDS



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F106 LIGHTNING/TK-10/M.THOMAS

TEST NO. 83-030

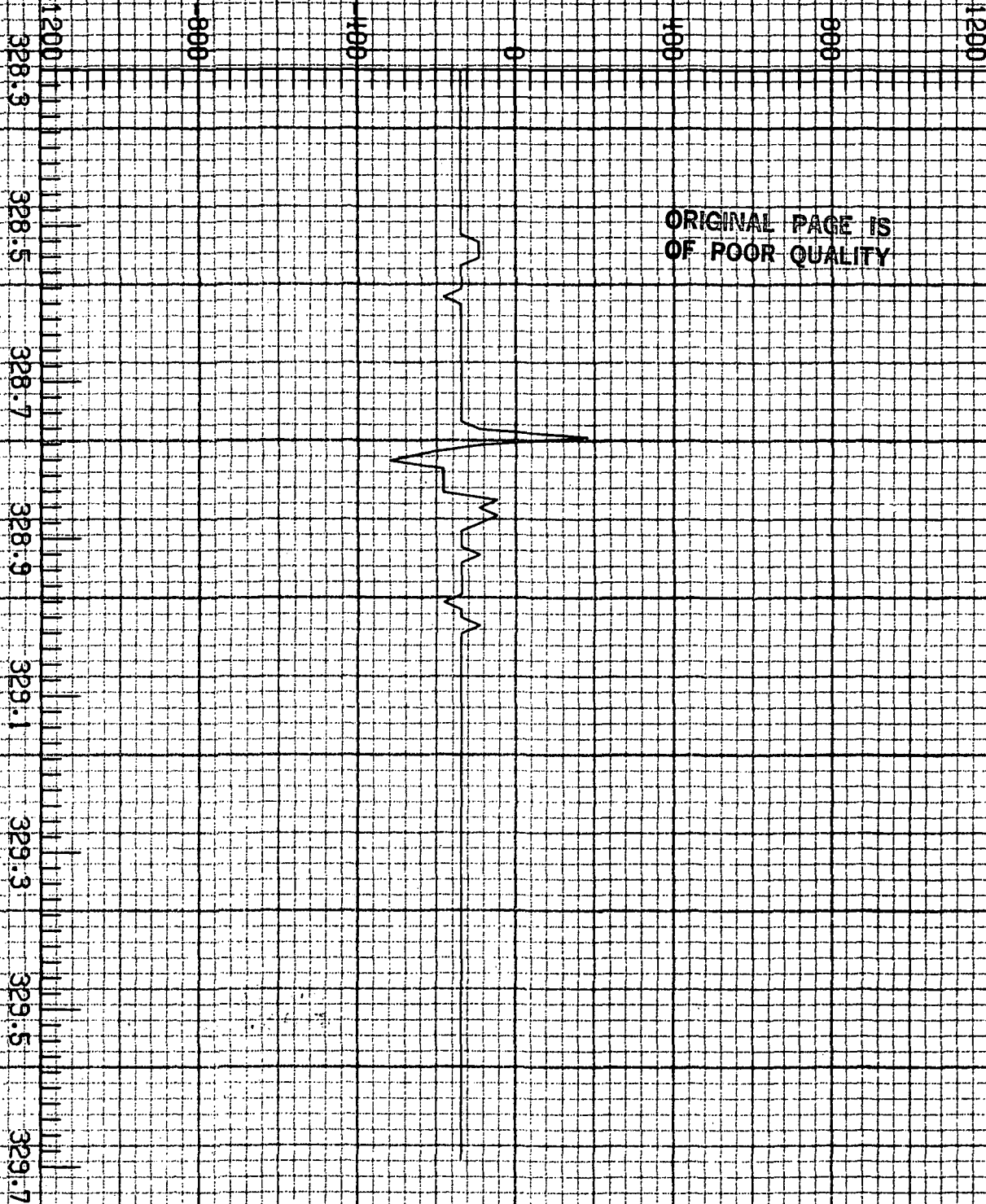
RUN NO. 14

N-005

B DOT L T/S

20:52:26.2550

MICROSECONDS



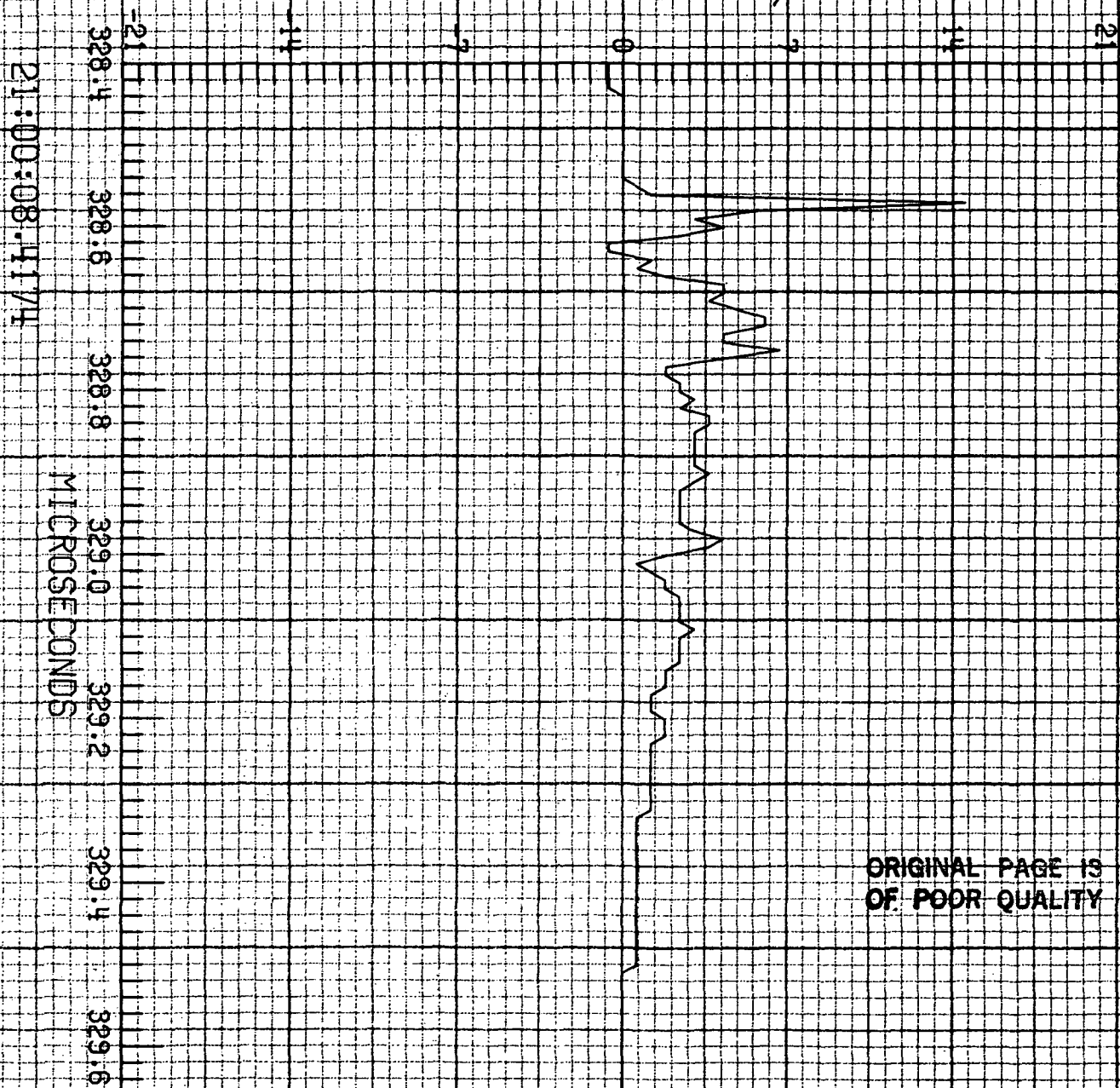
-106 LIGHTNING TK 8/THOMAS

TEST NO. 83-030

RUN NO. 15

N=006

D DOT FWD A/m²



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F106 LIGHTNING/TK.10/M.THOMAS
RUN NO. 15 N-006

TEST NO. 83-030

B DOT L T/S

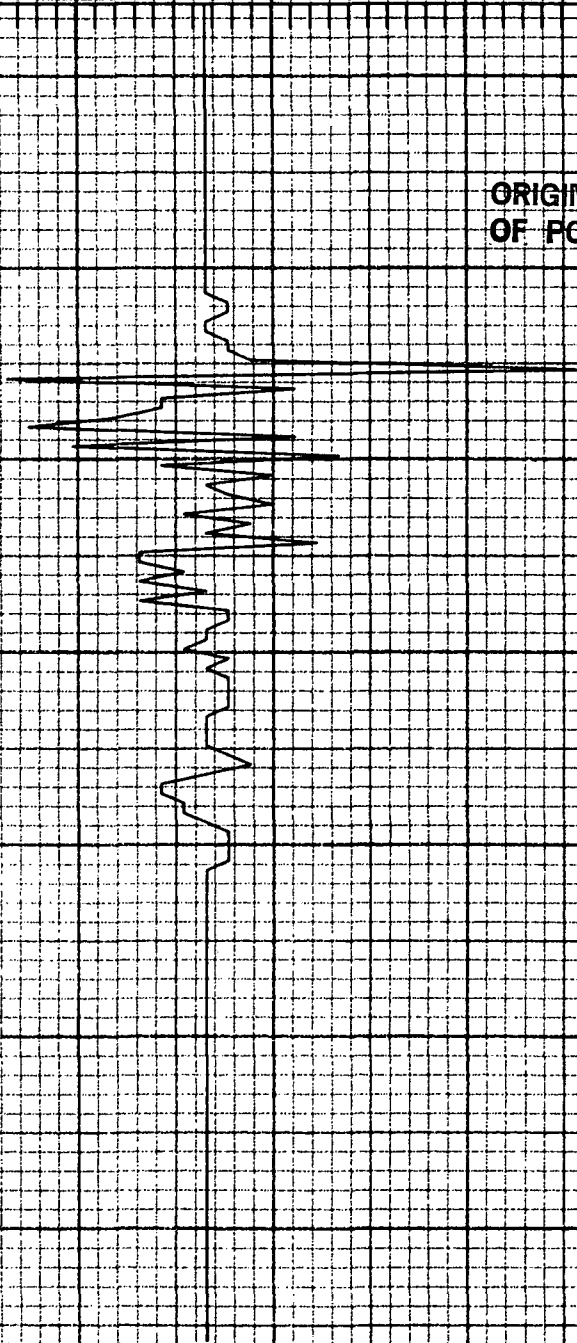
1200 800 400 0 400 800 1200

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21:00:08.4172

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328.3 328.5 328.7 328.9 329.1 329.3 329.5 329.7



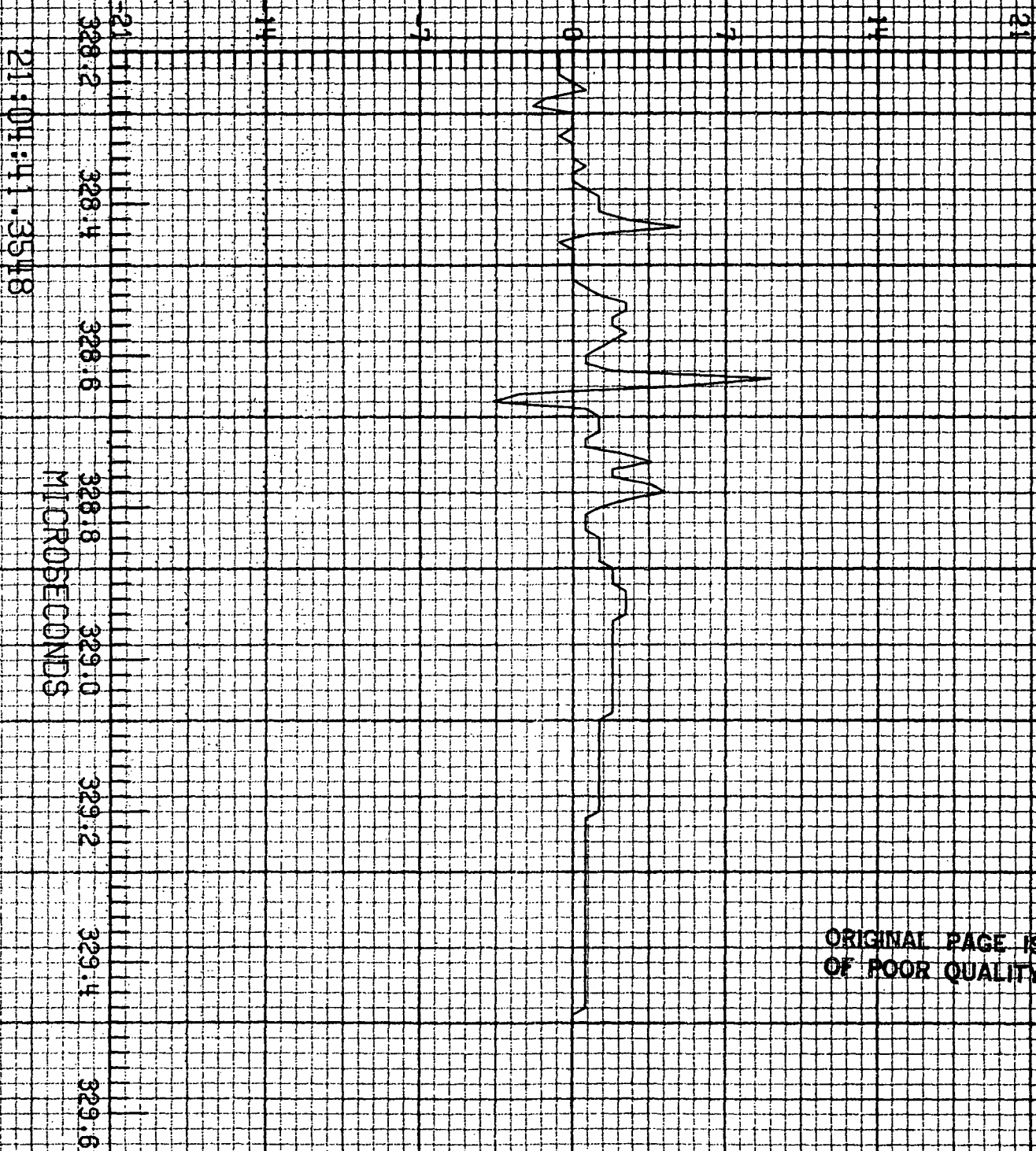
106 LIGHTNING TK 8/THOMBS

TEST NO. 83-03

RUN NO. 16

S-012

D DOT FWD A/m^2



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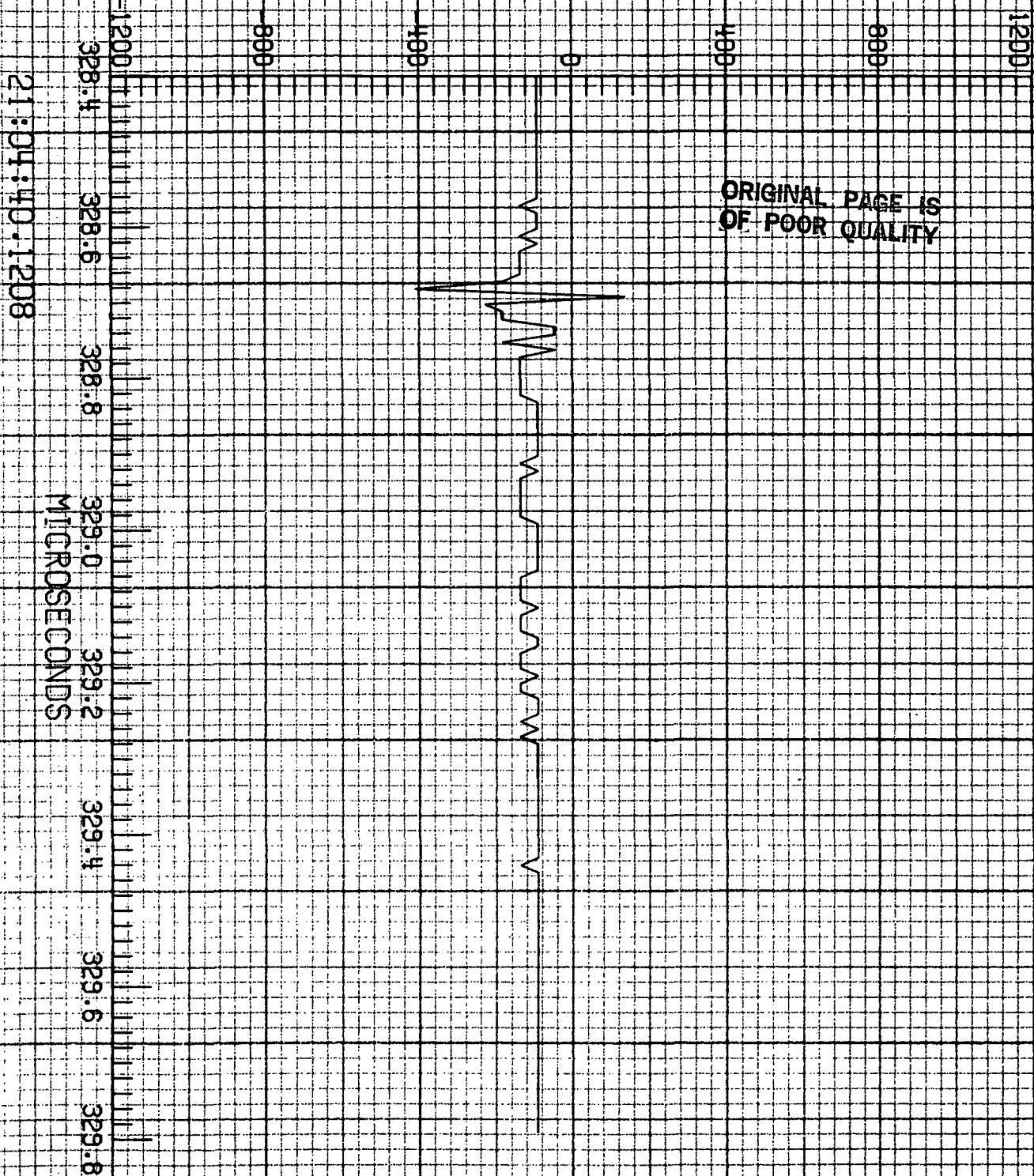
F106 LIGHTNING/TK.10/M.THOMAS

TEST NO. 88-030

RUN NO. 16

S-012

B DOT L T/S



F106 LIGHTNING/TK-10/M. THOMAS

TEST NO. 83-030

RUN NO. 16

S-012

B DOT L T/S

1200
800
400
0
400
800
1200

21:04:40.1208

401.7

401.9

402.1

402.3

402.5

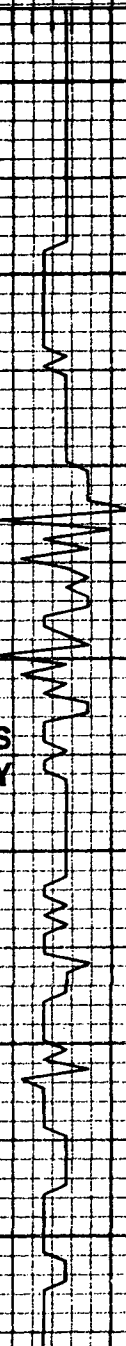
402.7

402.9

403.1

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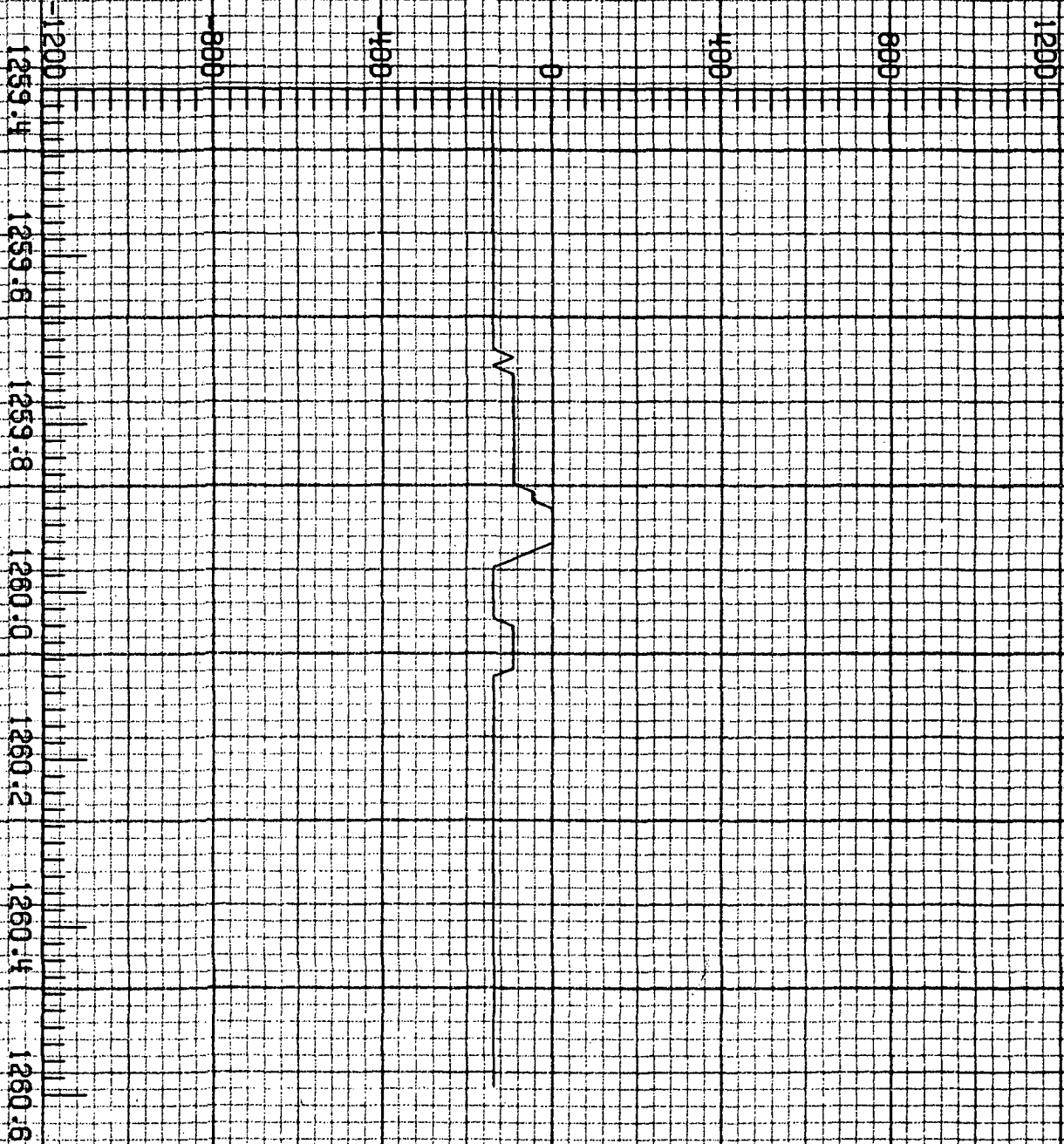
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F106 LIGHTNING/TK-10/M.THOMAS
RUN NO. 16

S-012

TEST NO. 83-030

B DOT L T/S

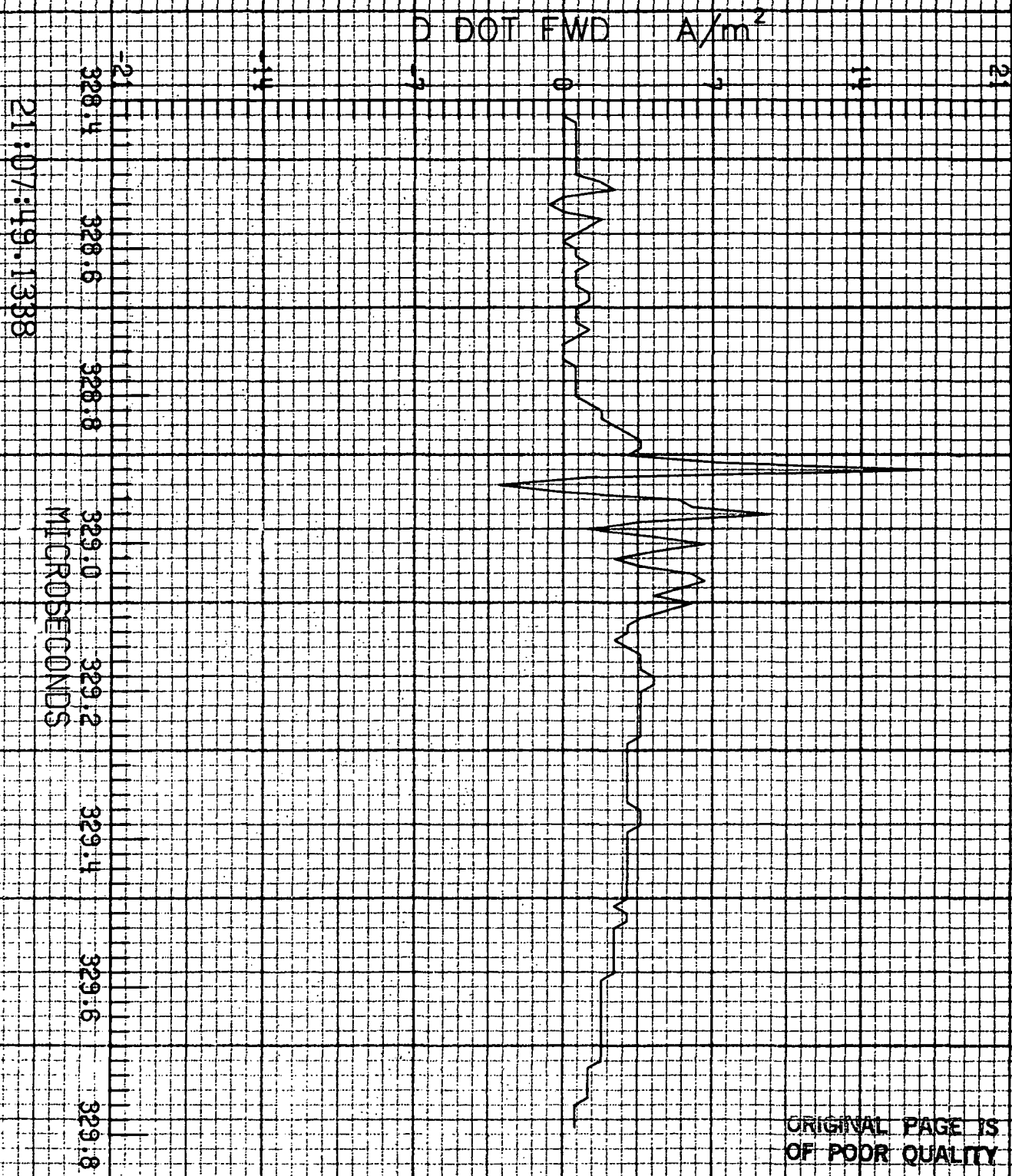


21:04:40.1208

MICROSECONDS

F106 LIGHTNING TK 8/THOMAS
RUN NO. 17 N=007

TEST NO. 83-030



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F106 LIGHTNING/TK-10/M. THOMAS

TEST NO. 83-030

RUN NO. 17

N-007

B DOT L T/S

1200
800
400
0
400
800
1200

328.4

328.6

328.8

329.0

329.2

329.4

329.6

329.8

21:07:19.0857

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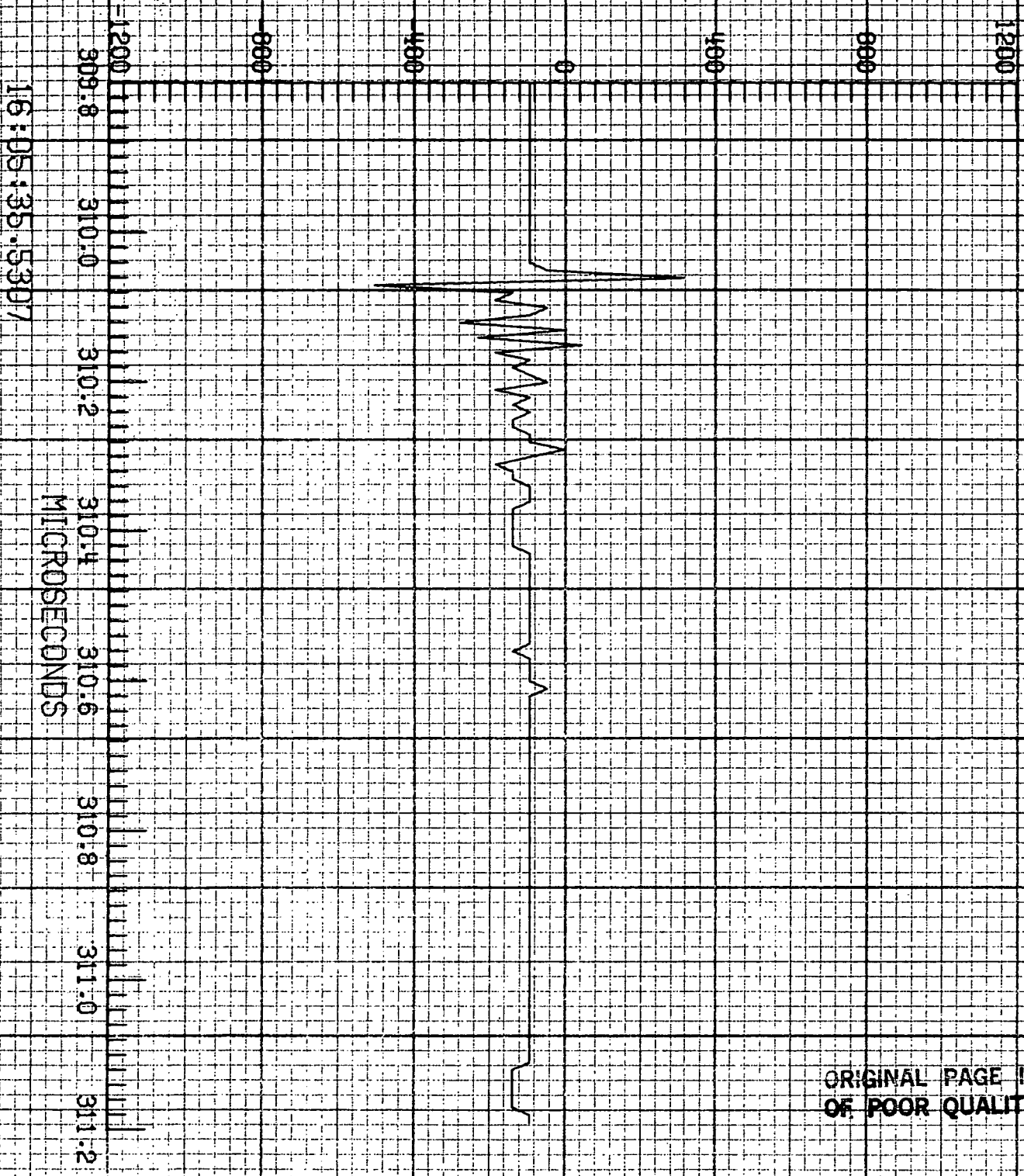
F106 LIGHTNING/TK 10/M.THOMAS

TEST NO. 83-032

RUN NO. 1

N-001

B DOT L I/S



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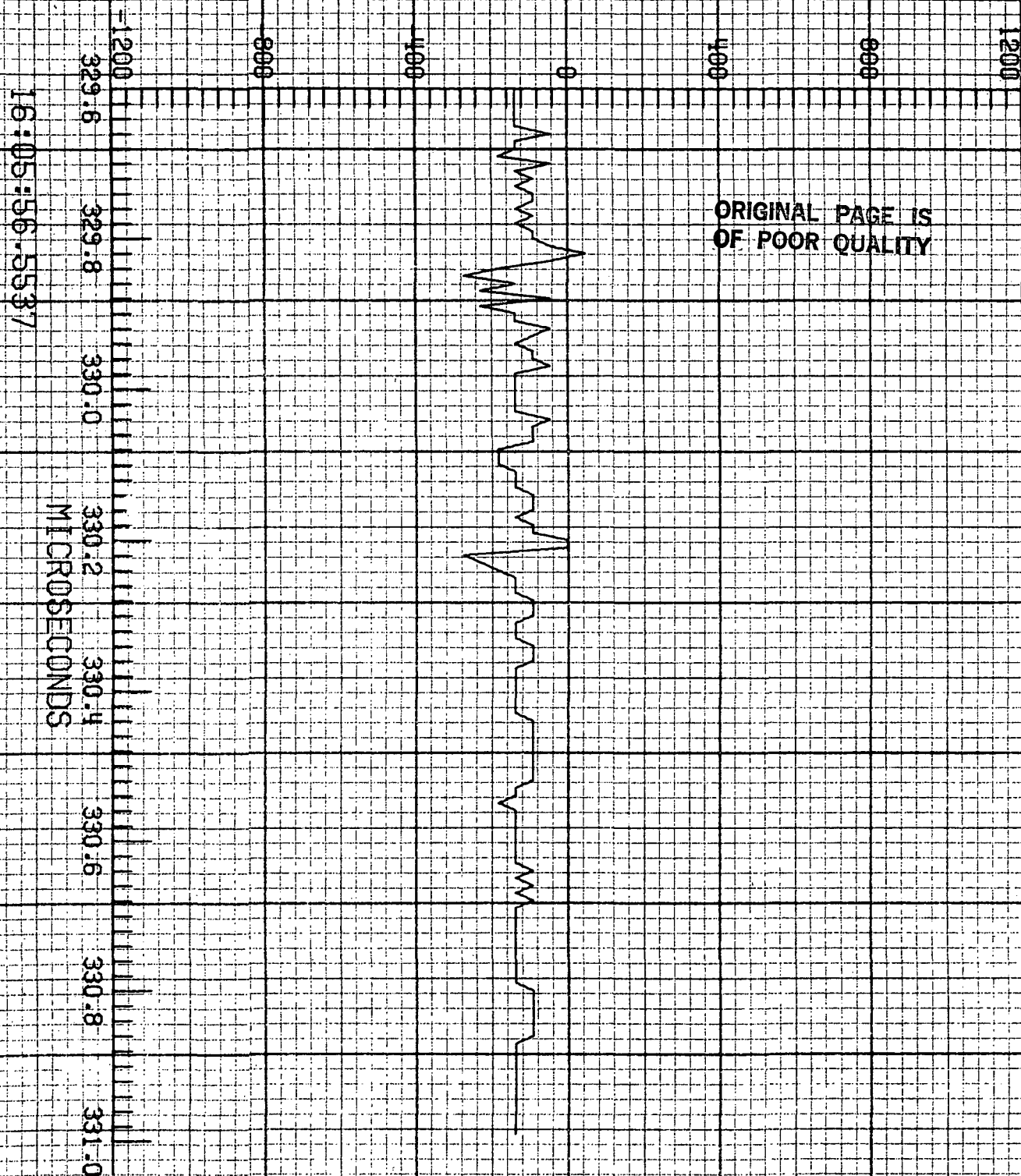
F106 LIGHTNING/TK 10/M.THOMAS

TEST NO. 83-032

RUN NO. 2

N-002

B DOT L T/S



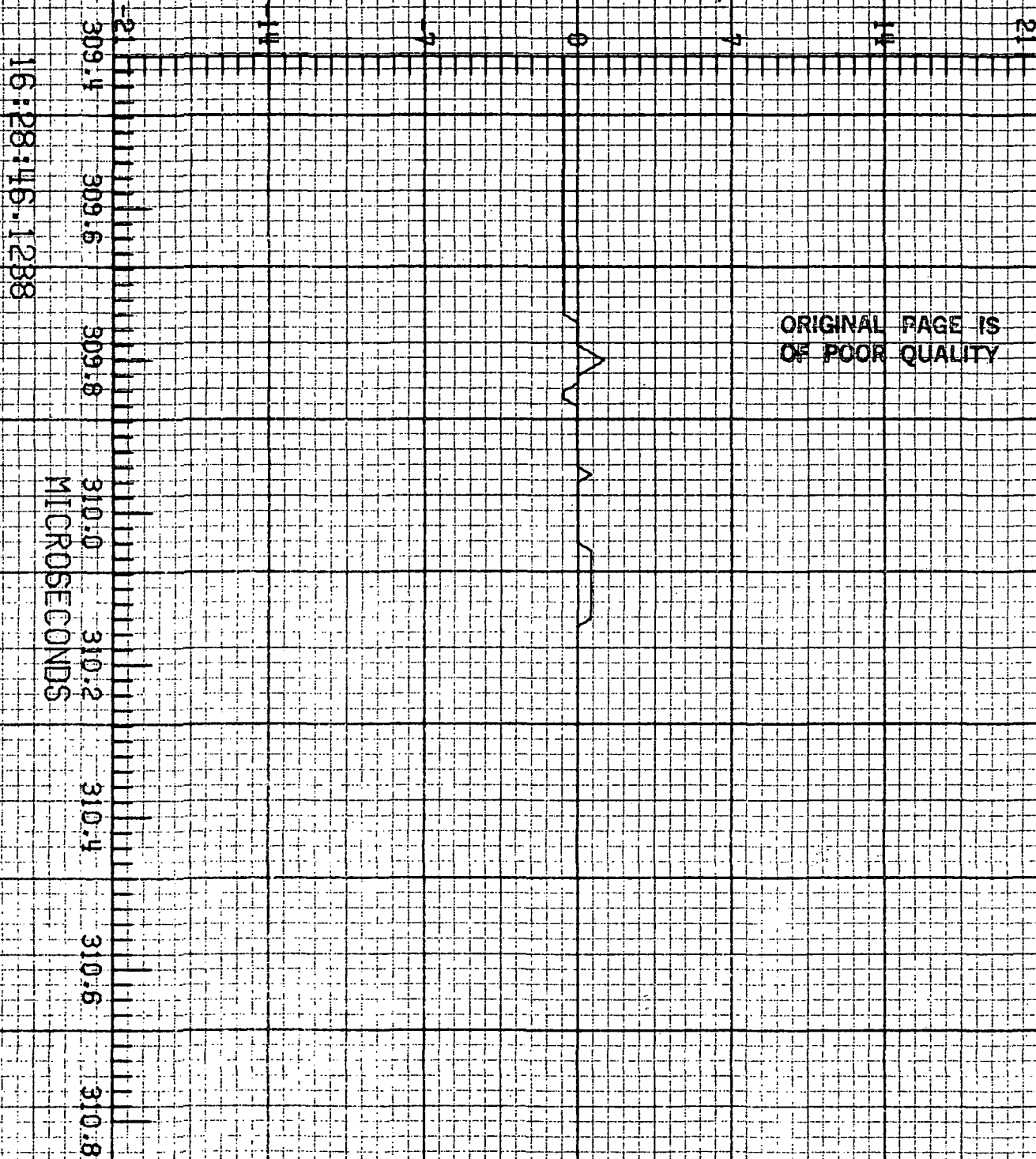
F106 LIGHTNING/TK 8/M. THOMAS

TEST NO. 83-032

RUN NO. 3

N-003

D DOT FWD A/m^2



F106 LIGHTNING/TK 10/M. THOMAS

TEST NO. 83-032

RUN NO. 3

N-003

B DOT L T/S

16:28:46.0376

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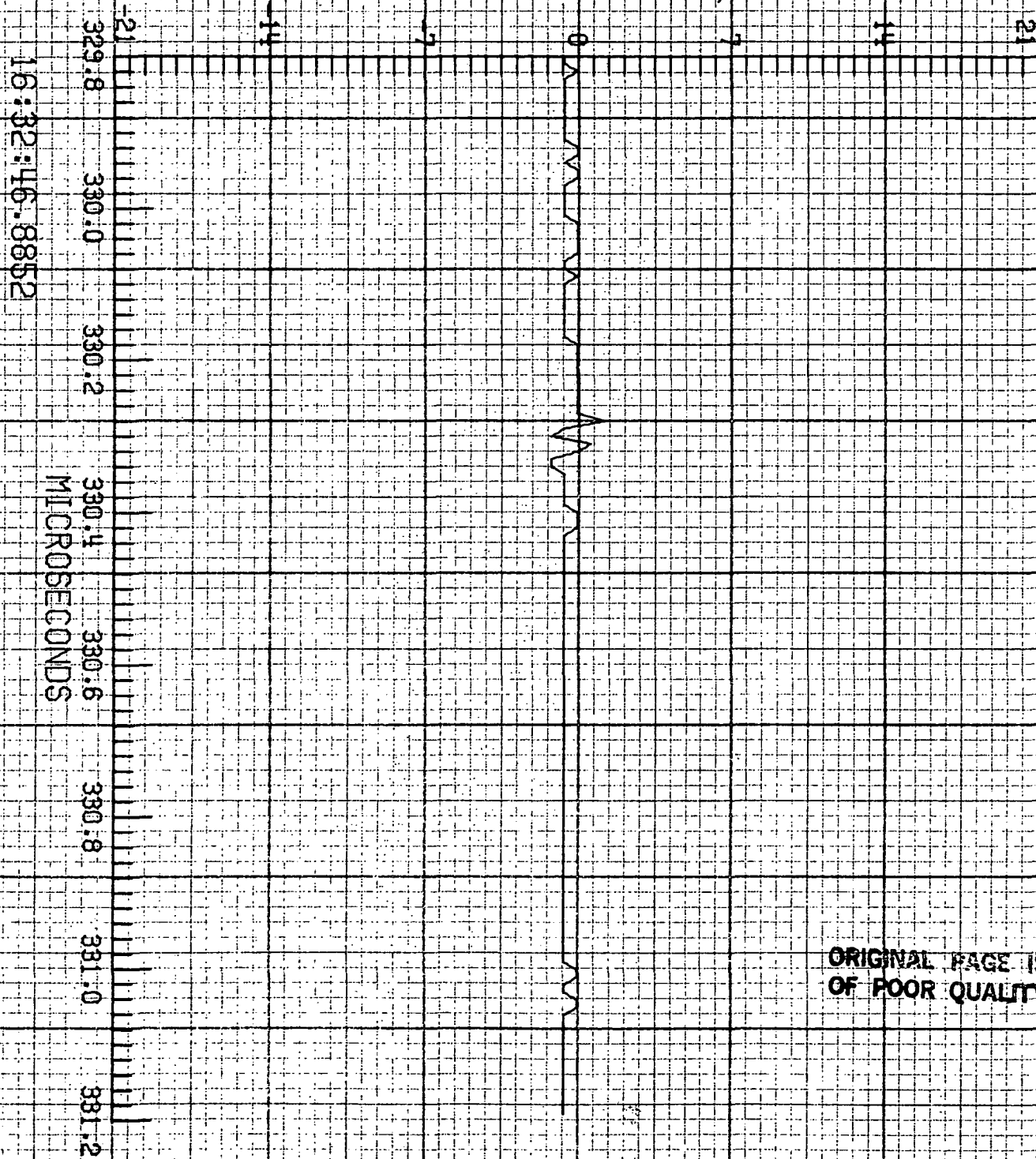
TEST NO. 83-032

RUN NO. 4

S-002

D DOT FWD

A/m²



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F106 LIGHTNING/TK 10/M. THOMAS

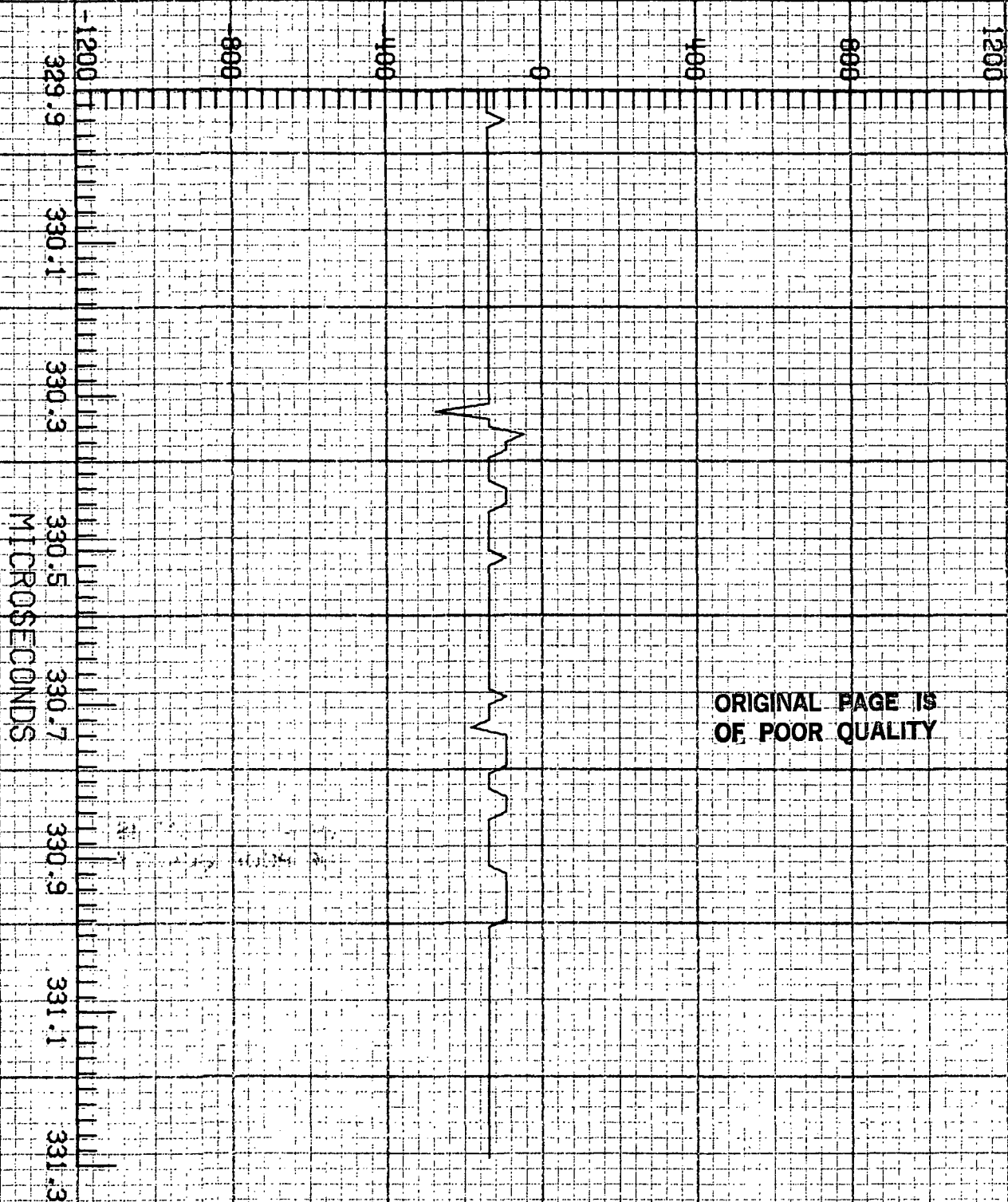
TEST NO. 83-032

RUN NO. 4

S-002

B DOT L T/S

16:32:46.7650



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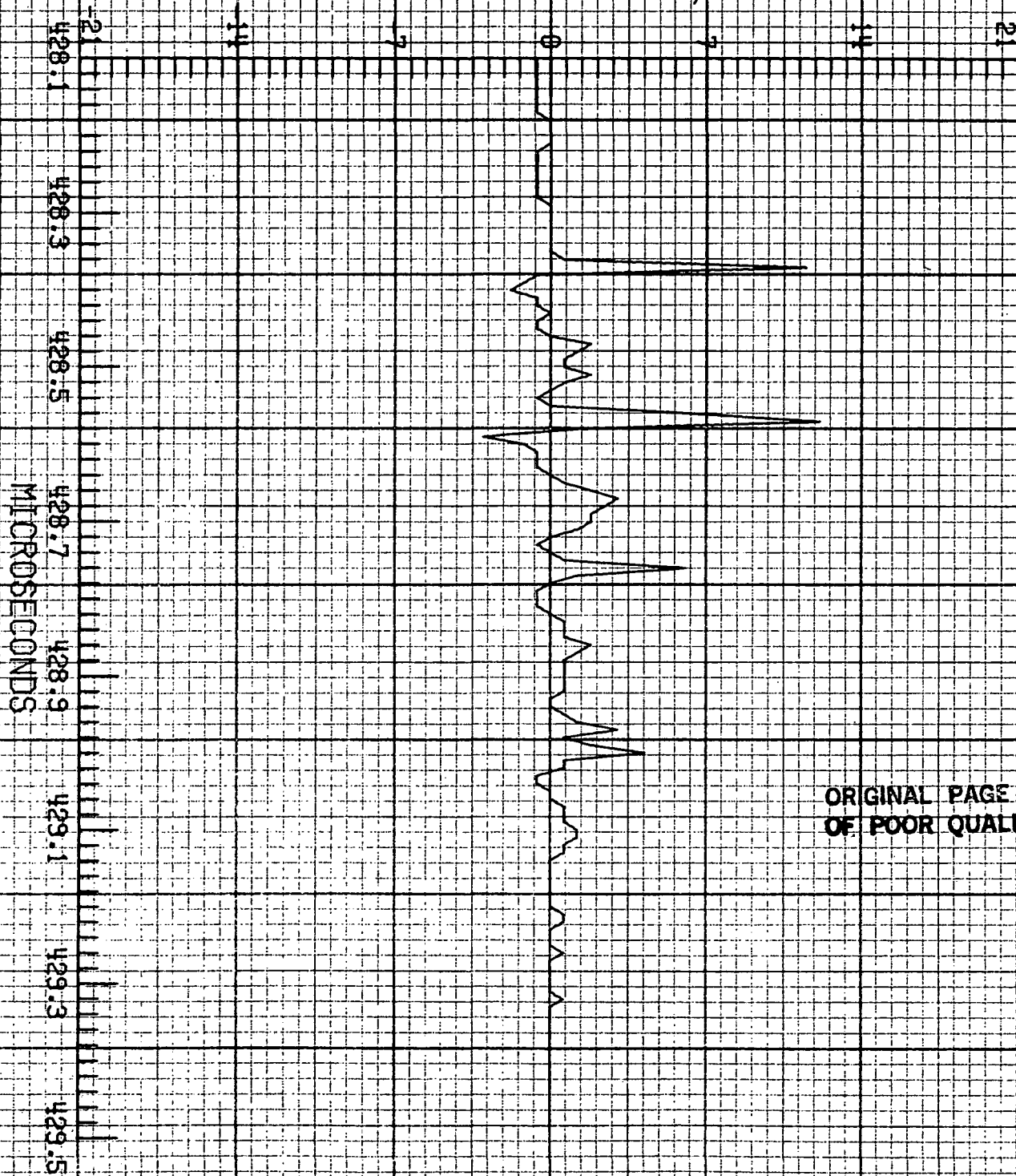
F106 LIGHTNING/TK 8/M. THOMAS

TEST NO. 83-032

RUN NO. #

S-002

D DOT FWD A/m^2



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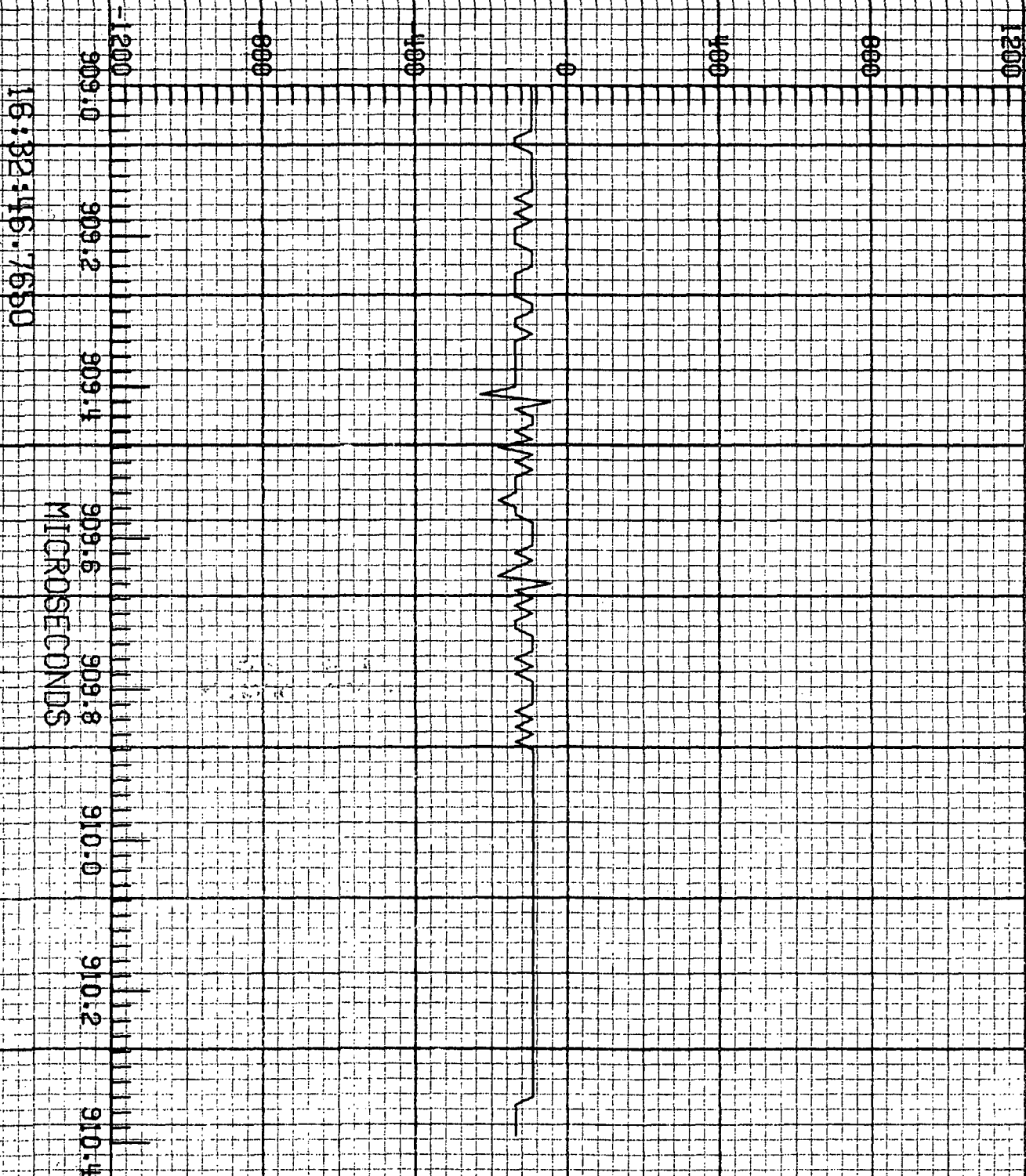
F106 LIGHTNING/TK 10/M.THOMAS

TEST NO. 83-032

RUN NO. #

S=002

B DOT L T/S



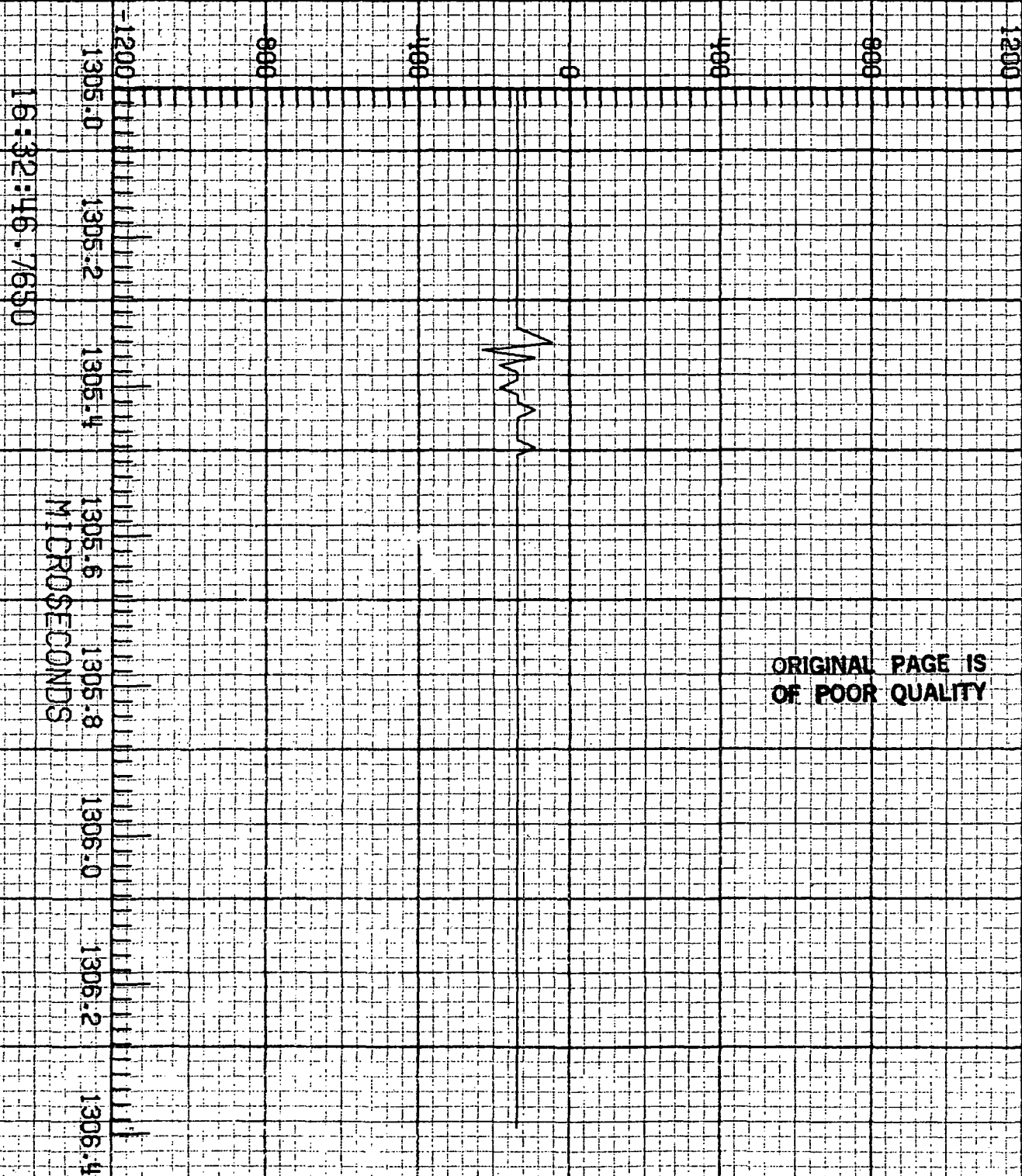
F106 LIGHTNING/TK 10/M.THOMAS

TEST NO. 83-032

RUN NO. 4

S-002

B DOT L T/S



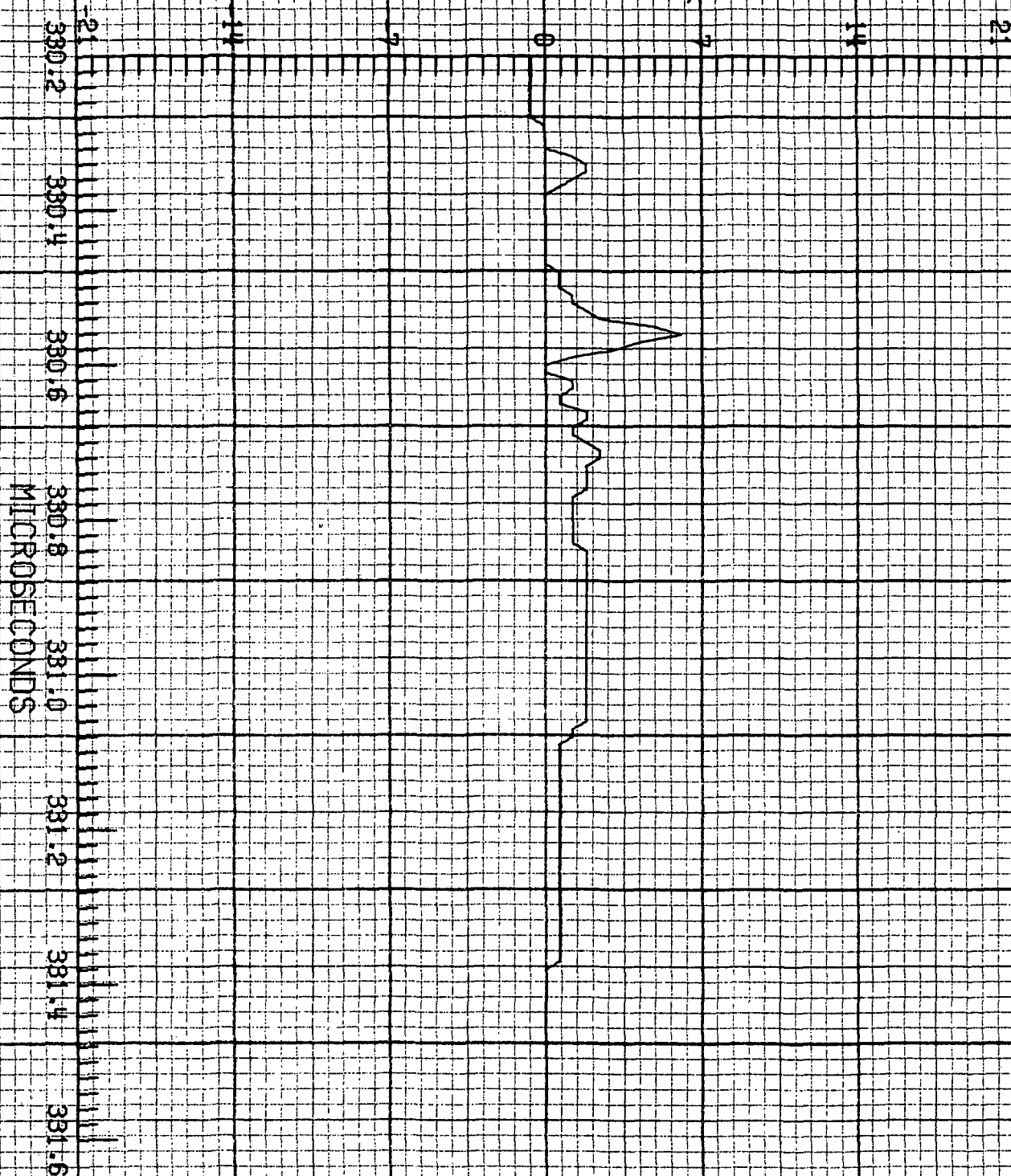
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F106 LIGHTNING/TK 8/M. THOMAS
RUN NO. 5 S-003

TEST NO. 83-032

D DOT FWD A/m^2



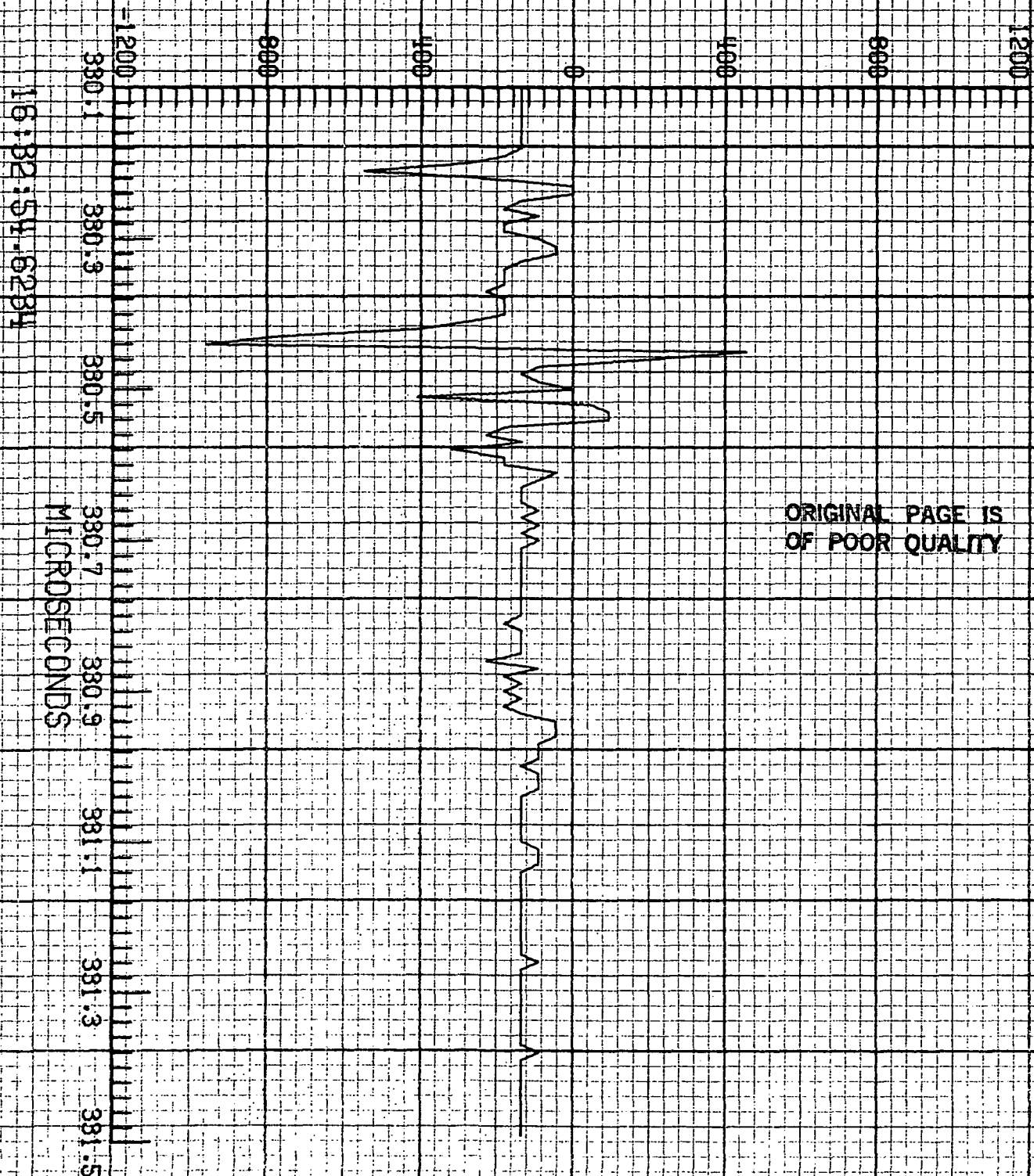
F106 LIGHTNING/TK 10/M. THOMAS

TEST NO. 83-032

RUN NO. 5

S-003

R DOT I T/S

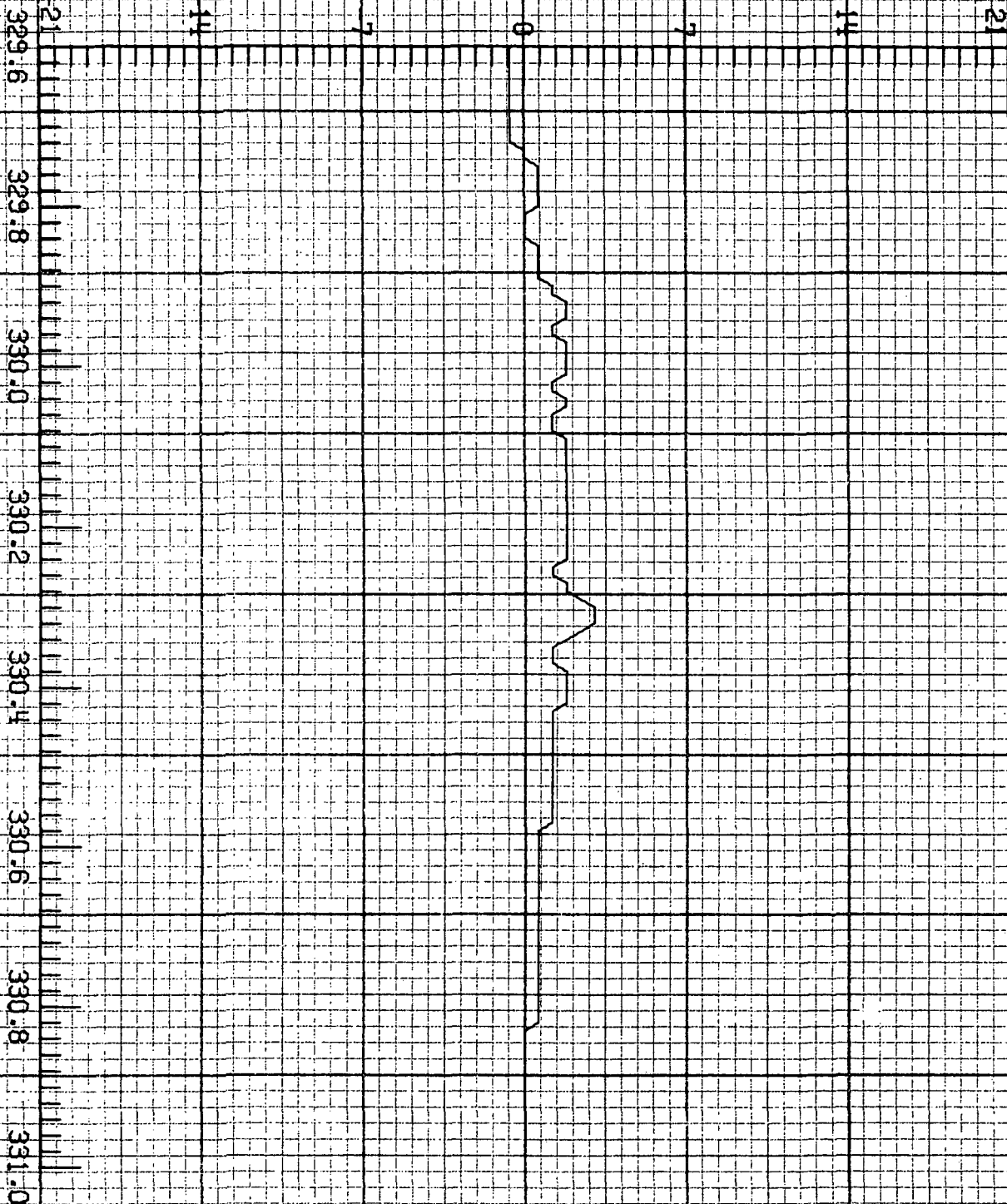


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F106 LIGHTNING/TK 8/M. THOMAS
RUN NO. 6 S-004

TEST NO. 83-032

D DOT FWD A/m^2



F106 LIGHTNING/TK 10/M.THOMAS

TEST NO. 83-032

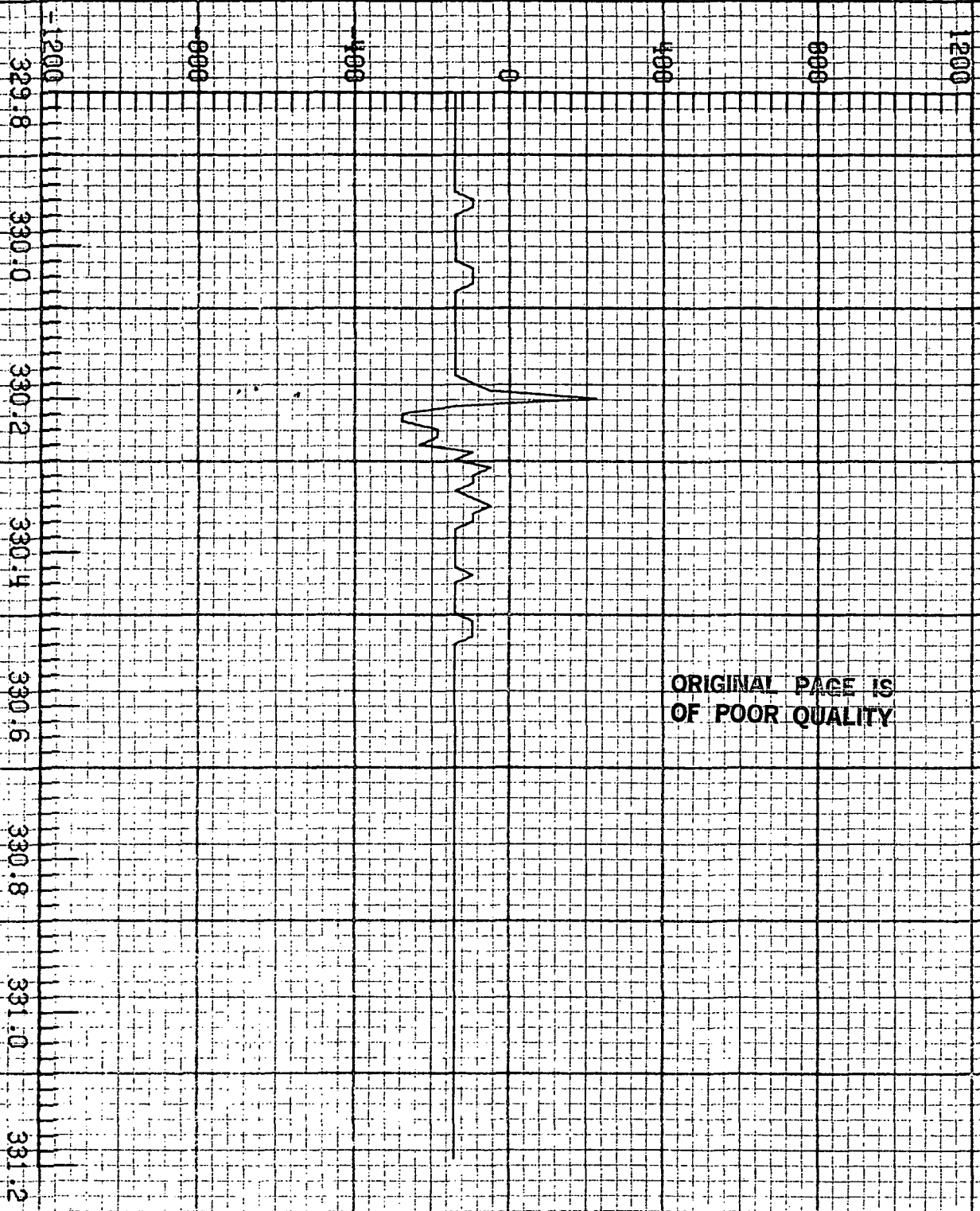
RUN NO. 5

S-004

B DOT L T/S

16:41:15.7394

MICROSECONDS



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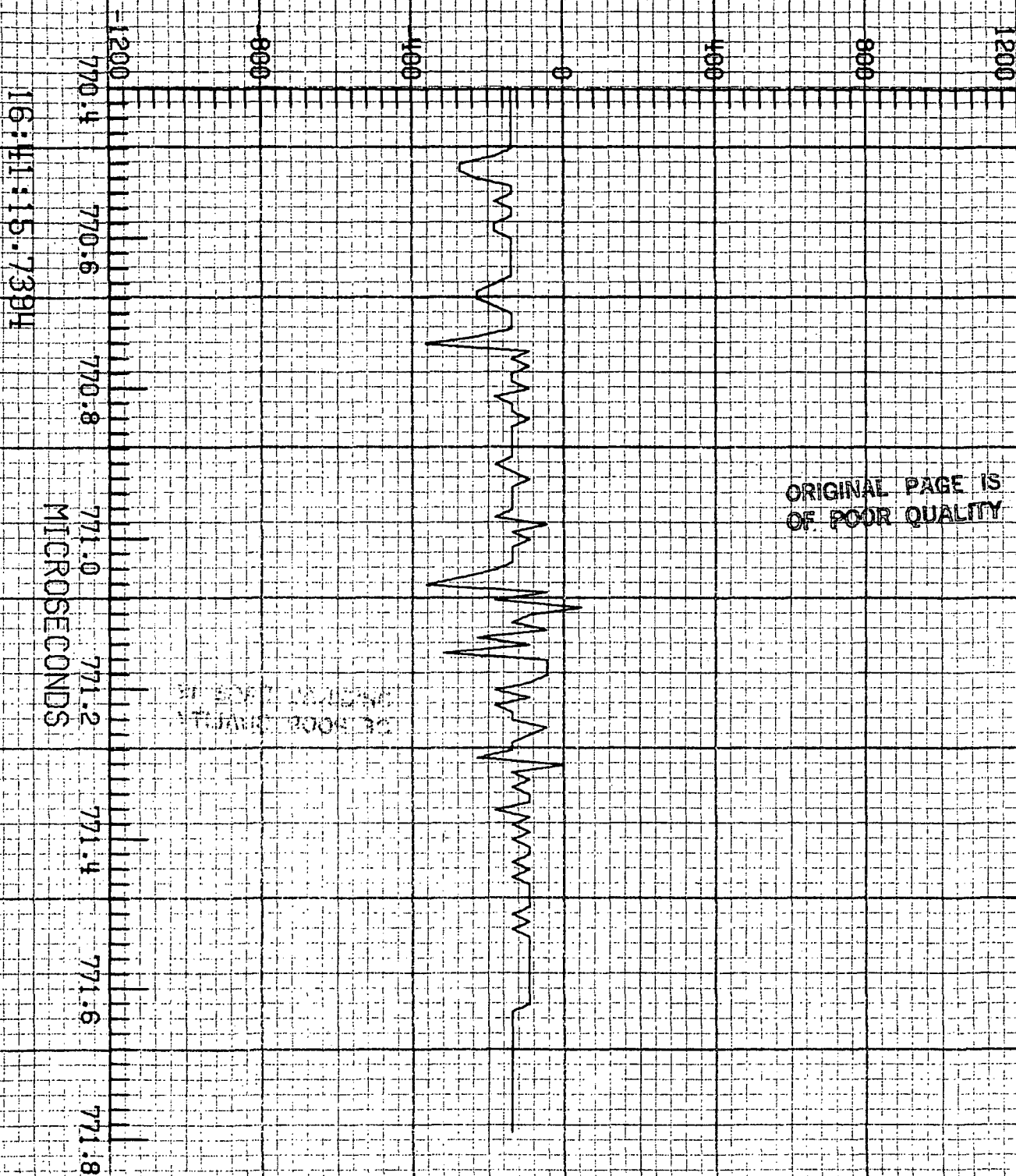
F106 LIGHTNING/TK 10/M.THOMAS

TEST NO. 83-032

RUN NO. 6

S=004

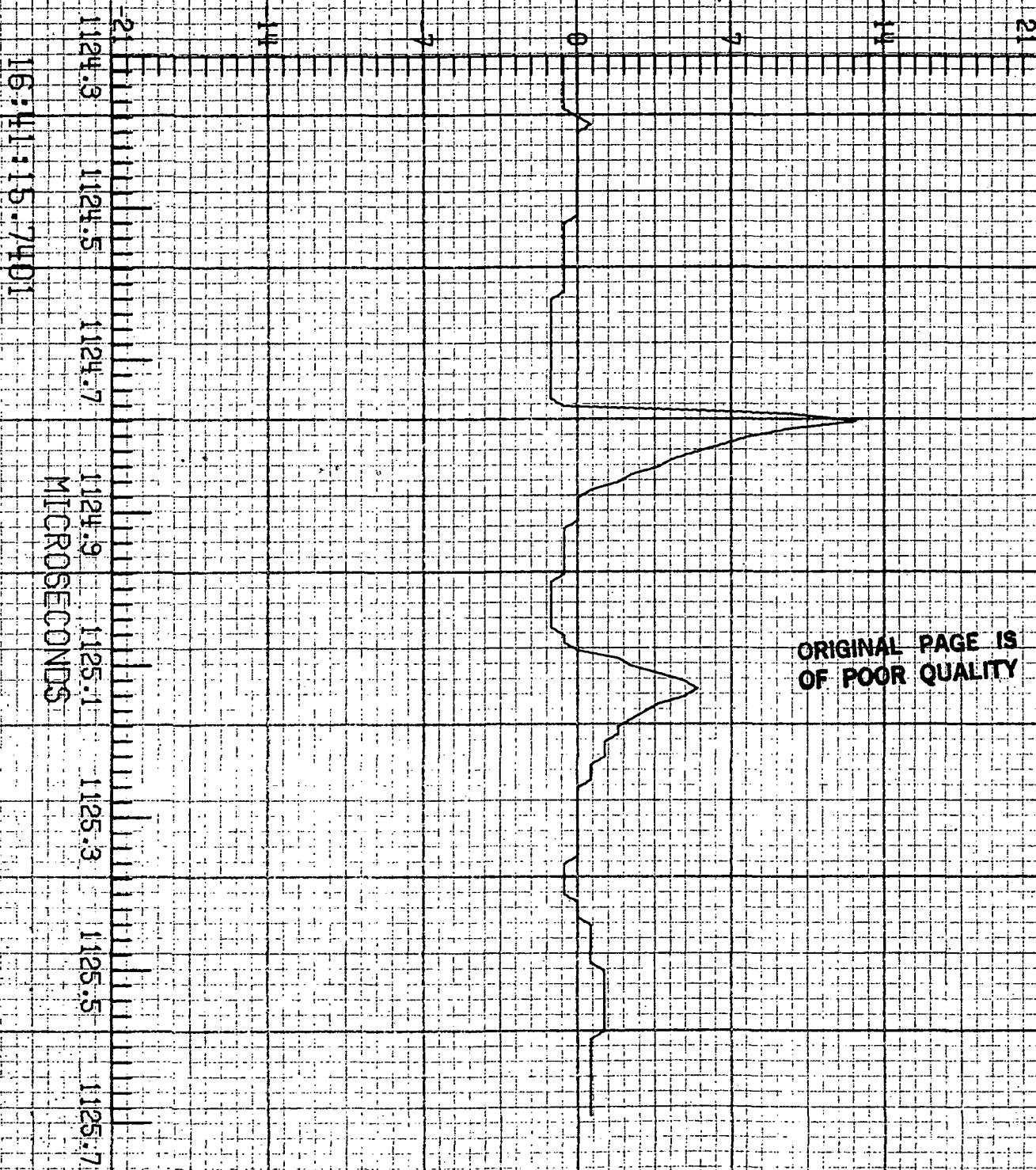
B DOT L I/S



F106 LIGHTNING/TK 8/M. THOMAS
RUN NO. 6 S-004

TEST NO. 83-032

D DOT FWD A/m^2



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F106 LIGHTNING/TK 10/M. THOMAS

TEST NO. 83-032

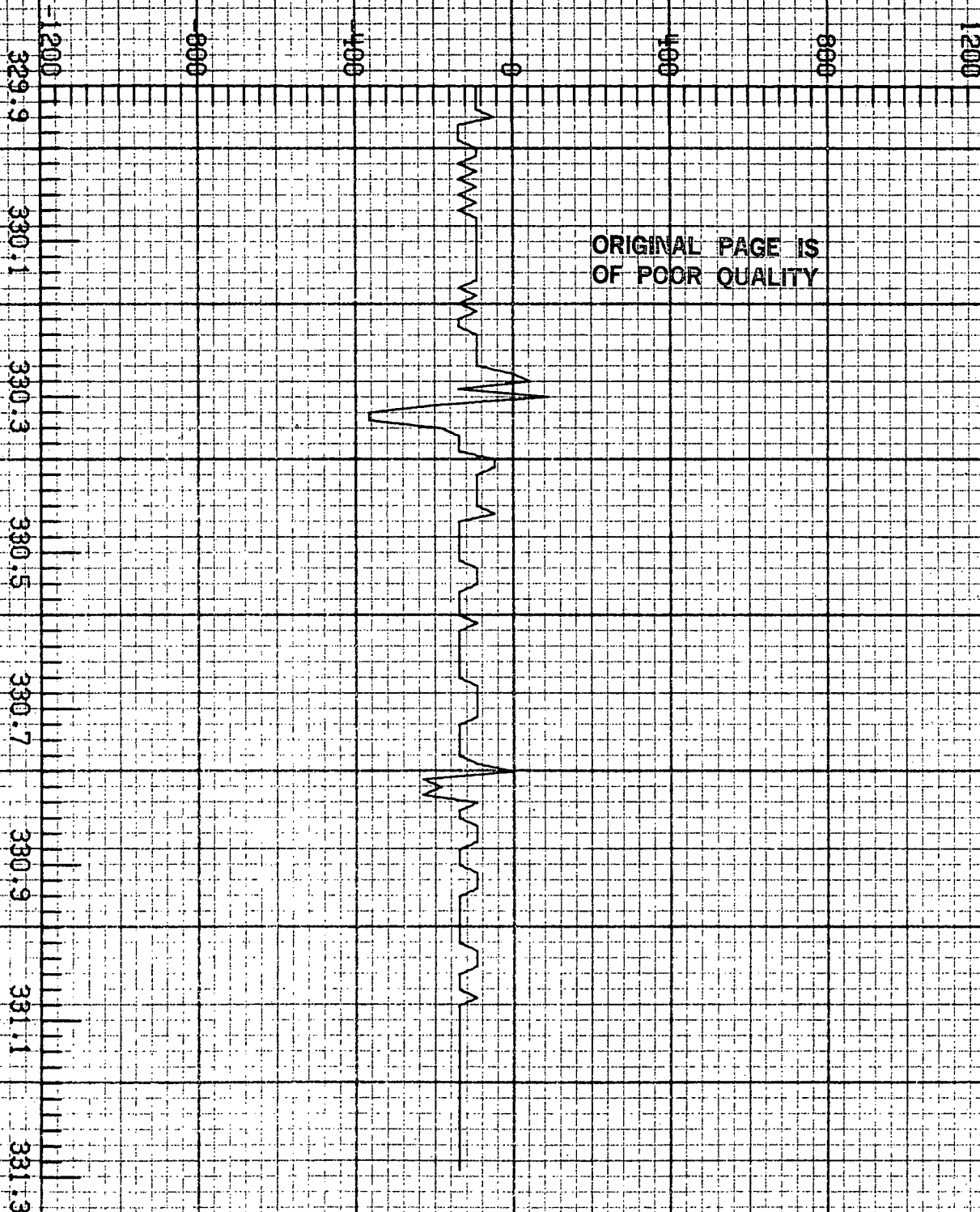
RUN NO. 7

N-004

R DOT L T/S

16:42:59.6785

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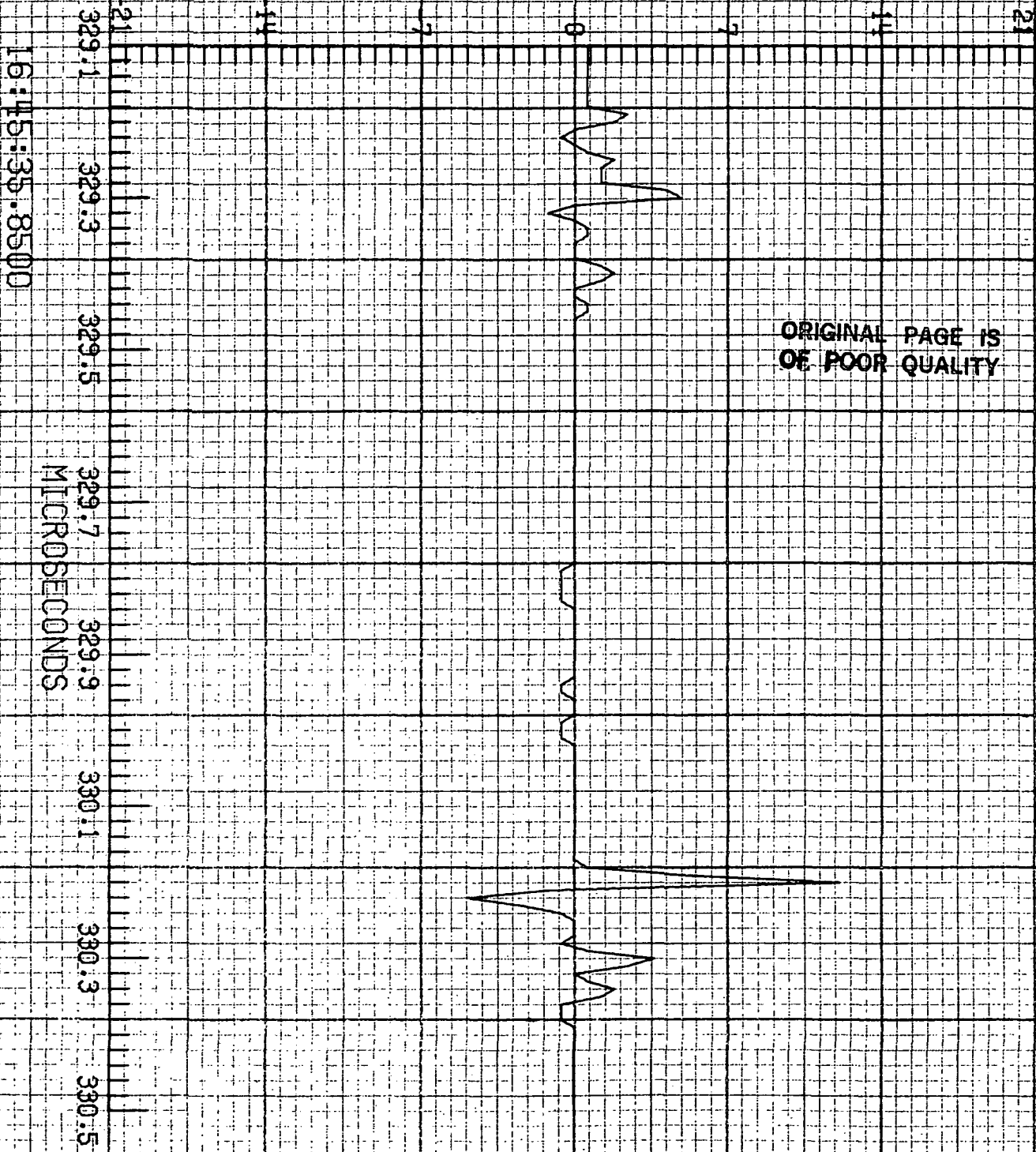
F106 LIGHTNING/TK 8/M. THOMAS

TEST NO. 83-032

RUN NO. 8

S-005

D DOT FWD A/m^2



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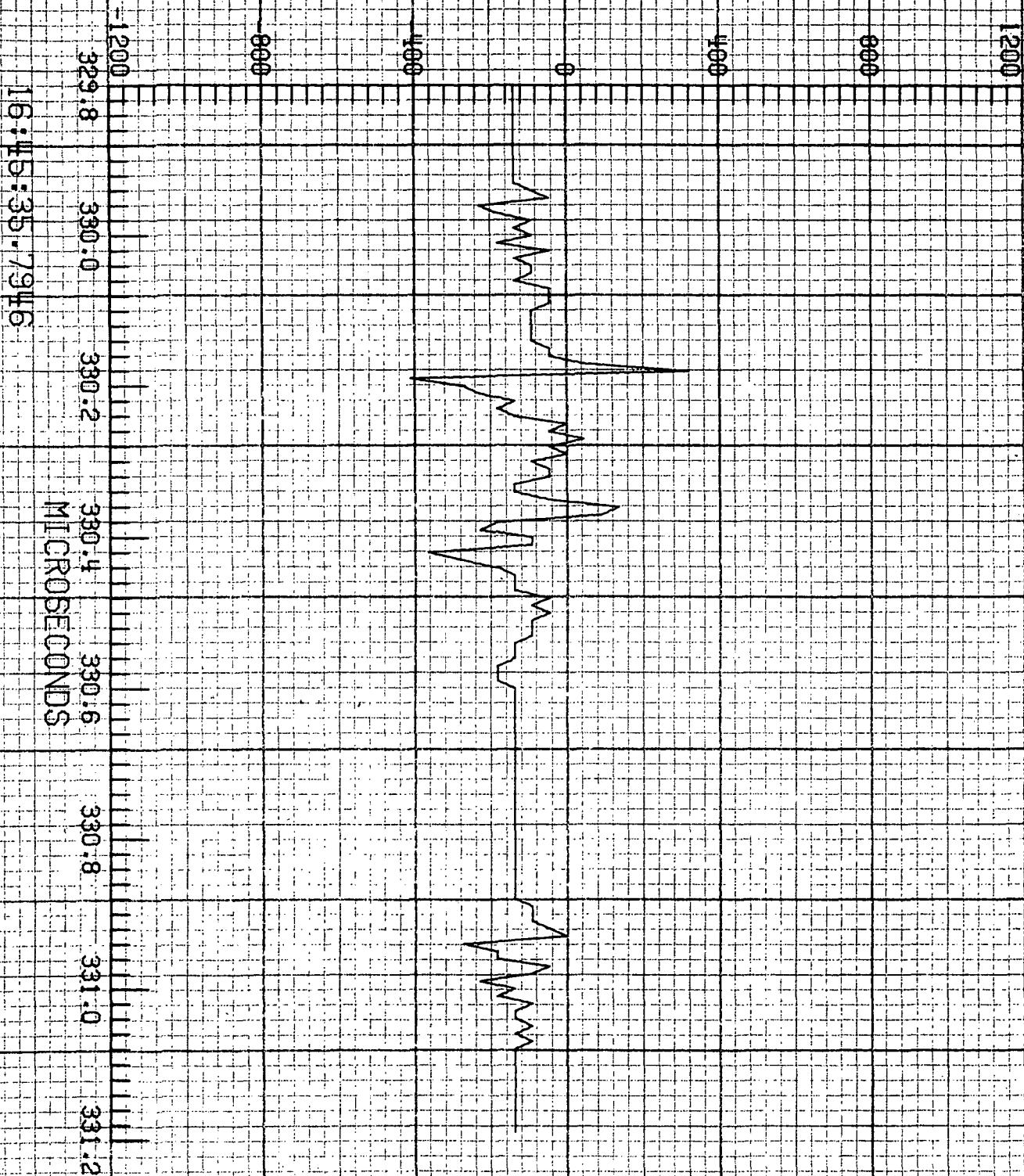
F106 LIGHTNING/TK 10/M. THOMAS

TEST NO. 83-032

RUN NO. 8

S-005

B DOT I T/S



F106 LIGHTNING/TK 8/M. THOMAS

TEST NO. 83-032

RUN NO. 9

S-006

D DOT FWD A/m^2

16:46:31.1962

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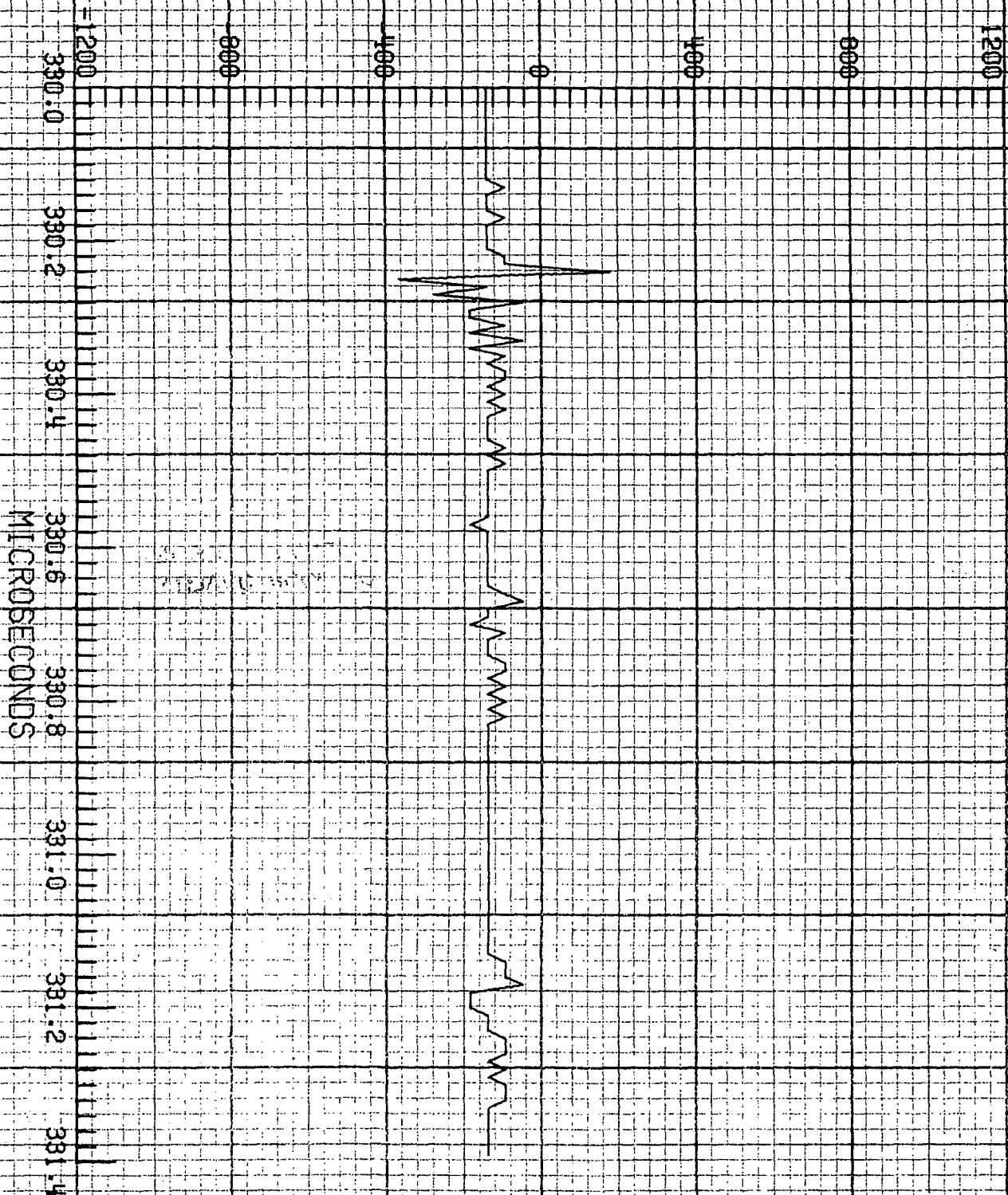
F106 LIGHTNING/TK 10/M. THOMAS

TEST NO. 83-032

RUN NO. 8

S=006

B DOT 1 T/S



F106 LIGHTNING/TK 8/M. THOMAS

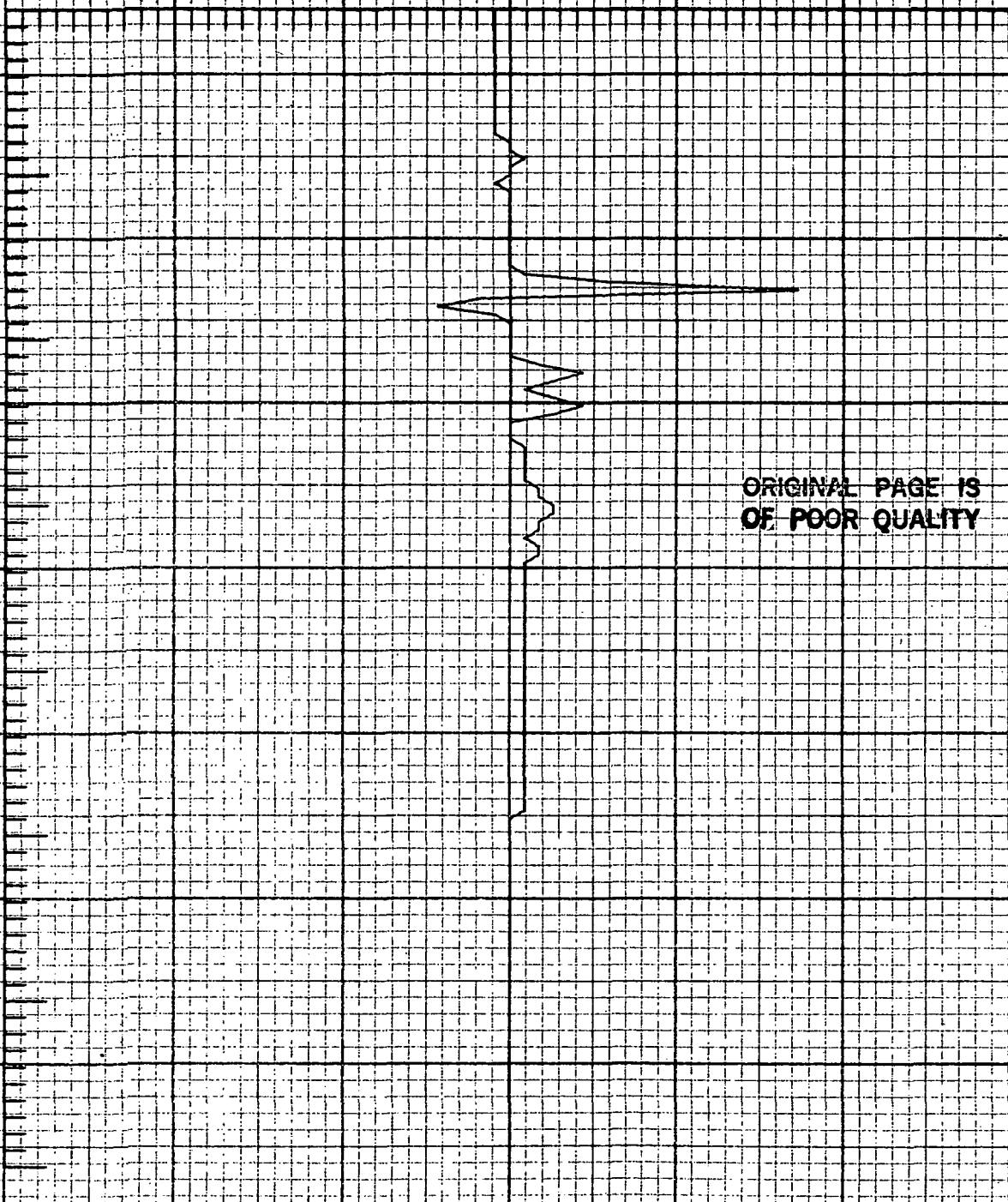
TEST NO. 83-032

RUN NO. 10

S-007

D DOT FWD A/m²

21 11 9 8 7 6 5 4 3 2 1



16:51:02.9729

MICROSECONDS

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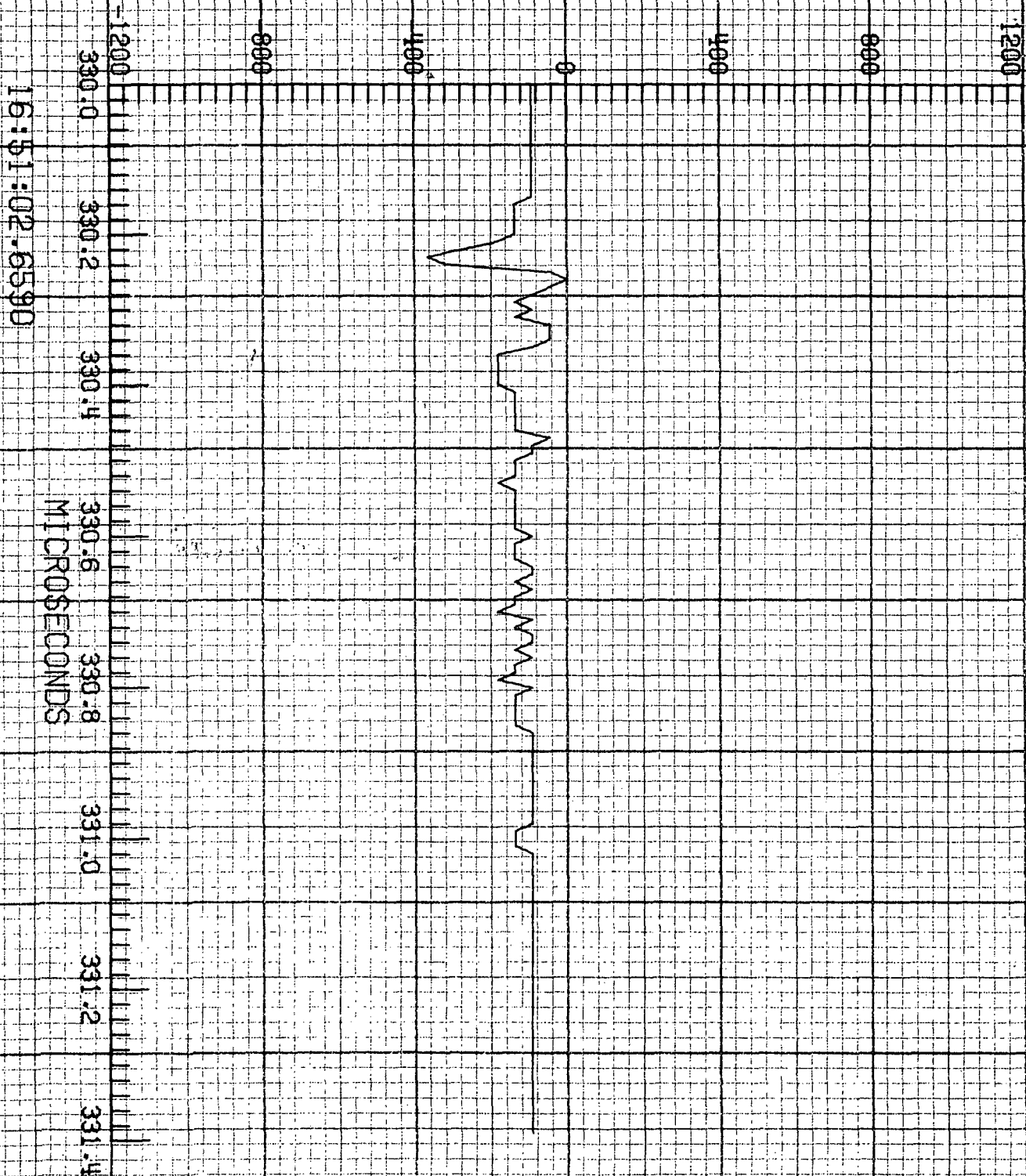
F106 LIGHTNING/TK 10/M.THOMAS

TEST NO. 83-032

RUN NO. 10

S-007

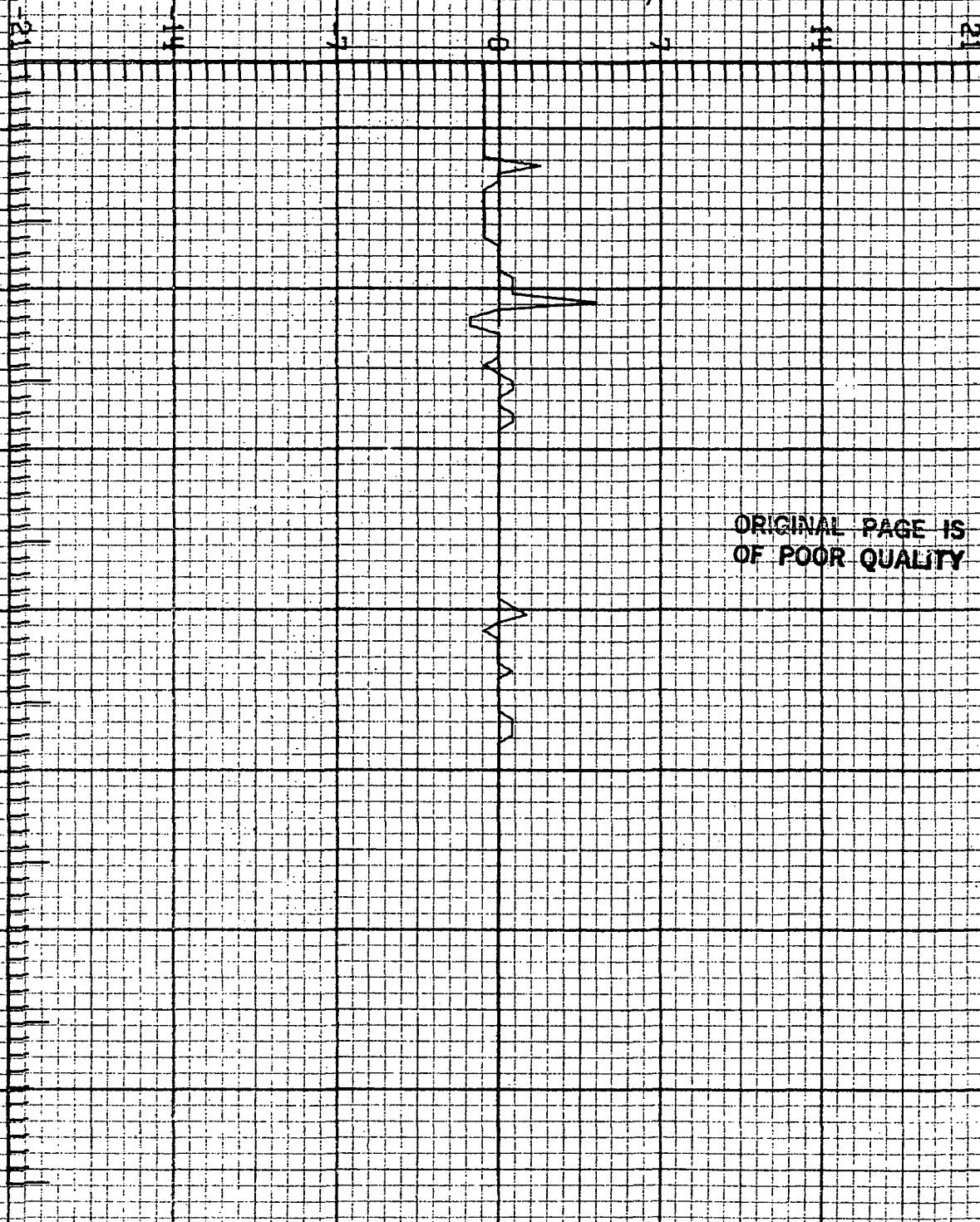
B DOT L T/S



106 LIGHTNING/TK 8/M. THOMAS
RUN NO. 10 S-007

TEST NO. 83-032

D DOT FWD A/m^2



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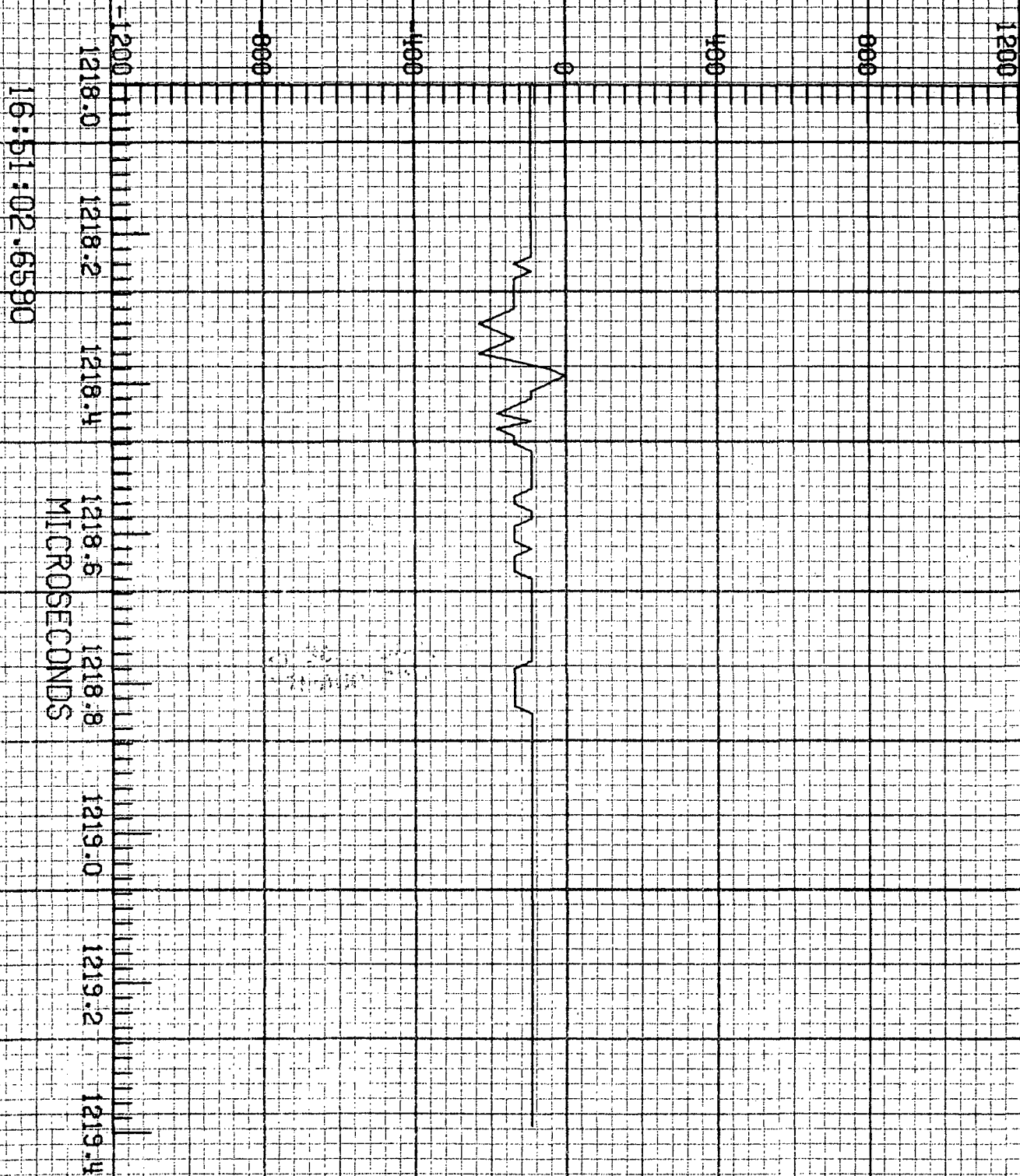
F106 LIGHTNING/TK 10/M.THOMAS

TEST NO. 83-032

RUN NO. 10

S-007

B DOT L T/S



F106 LIGHTNING/TK 10/M.THOMAS

TEST NO. 83-032

RUN NO. 11

N-005

B DOT L T/S

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16:51:15.7040

330.0

330.2

330.4

330.6

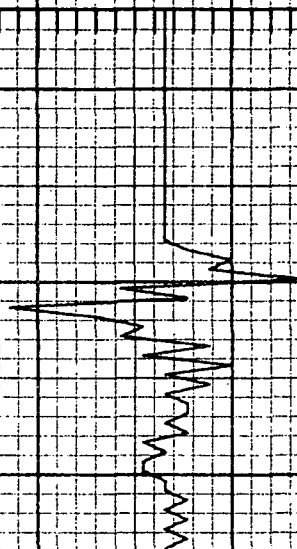
330.8

331.0

331.2

331.4

MICROSECONDS



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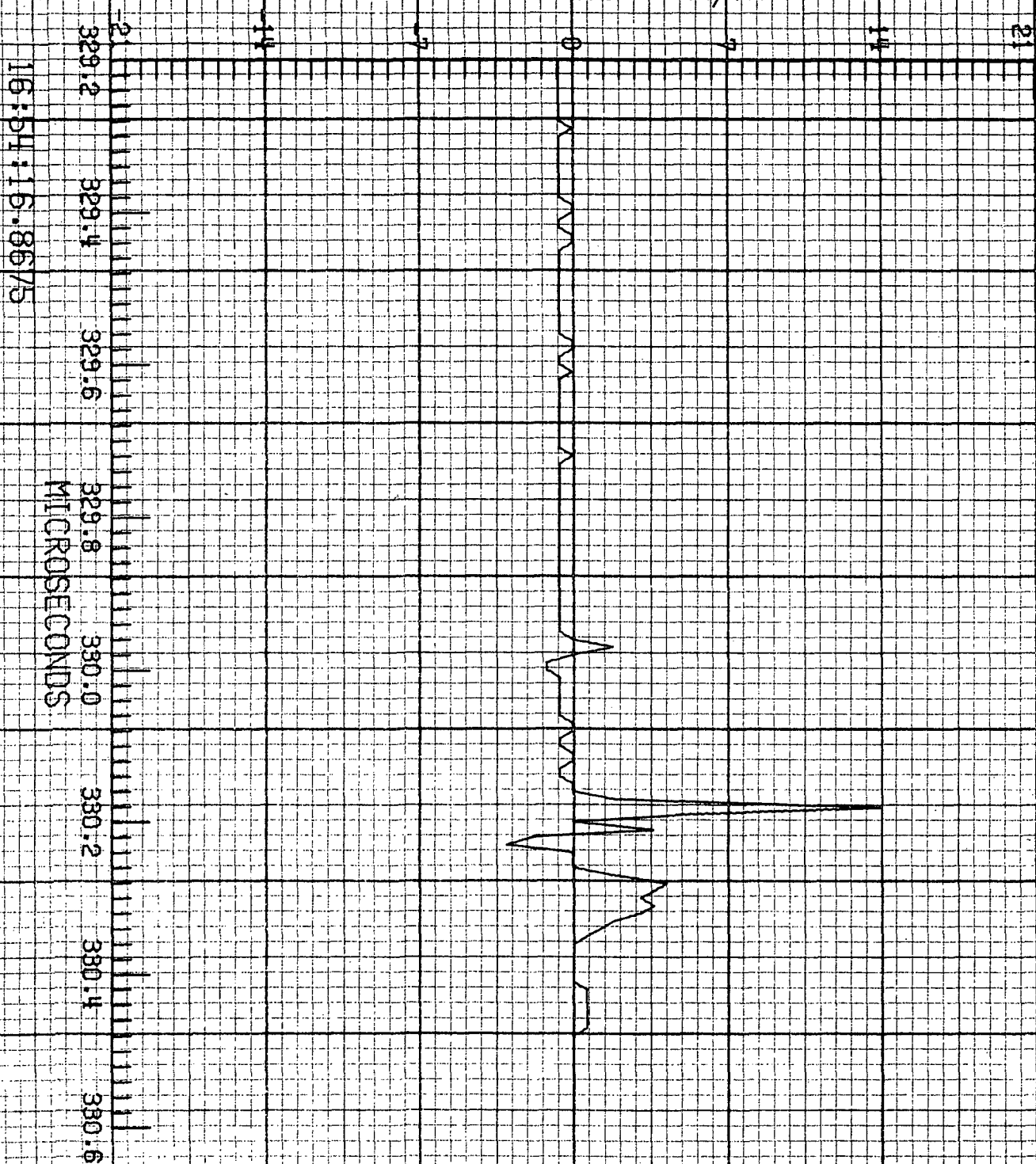
F106 LIGHTNING/TK 8/M. THOMAS

TEST NO. 83-032

RUN NO. 12

S-008

D DOT FWD A/m^2



F106 LIGHTNING/TK 10/M.THOMAS

TEST NO. 83-032

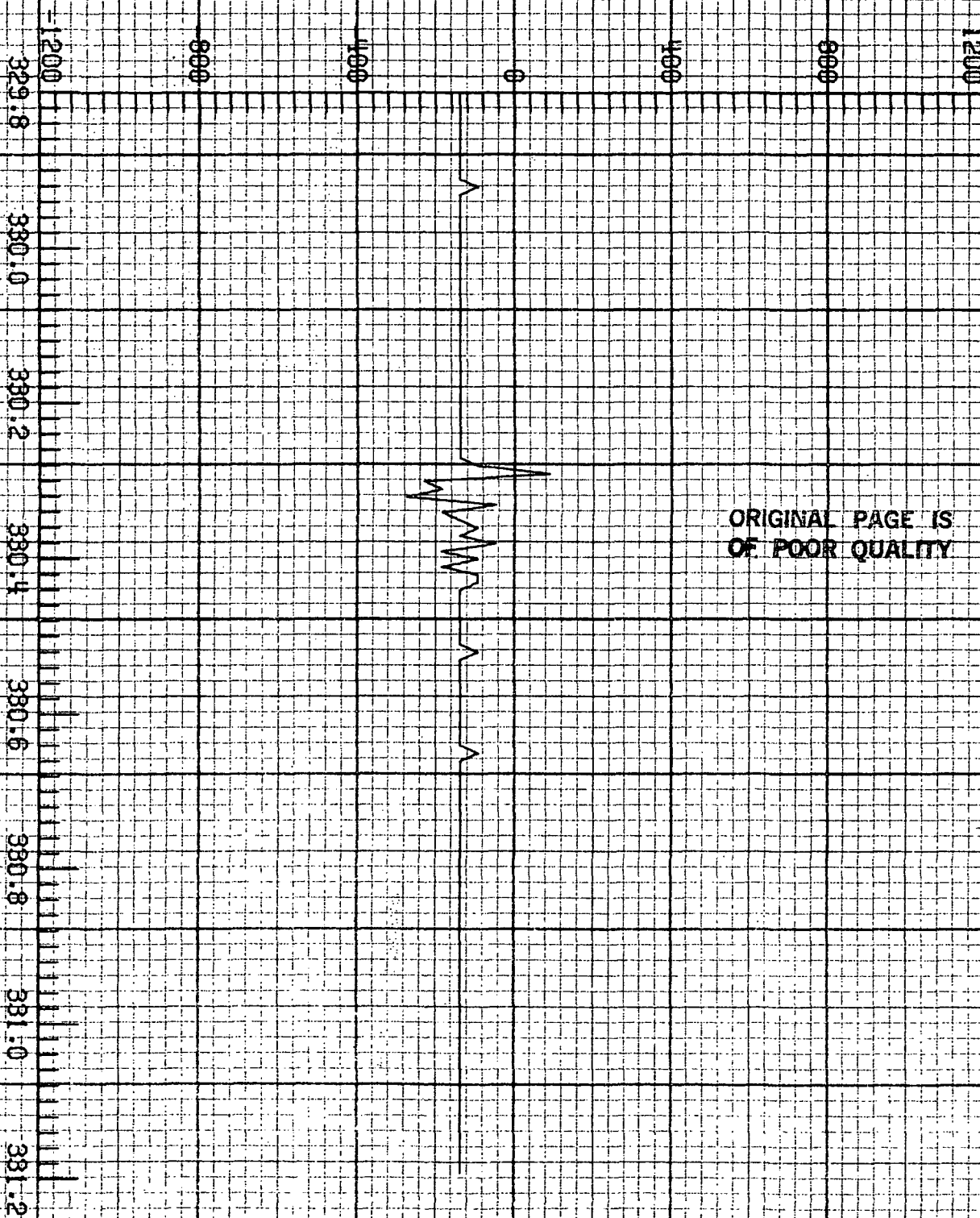
RUN NO. 12

N=007

B DOT 1 T/S

16:54:16.6509

MICROSECONDS



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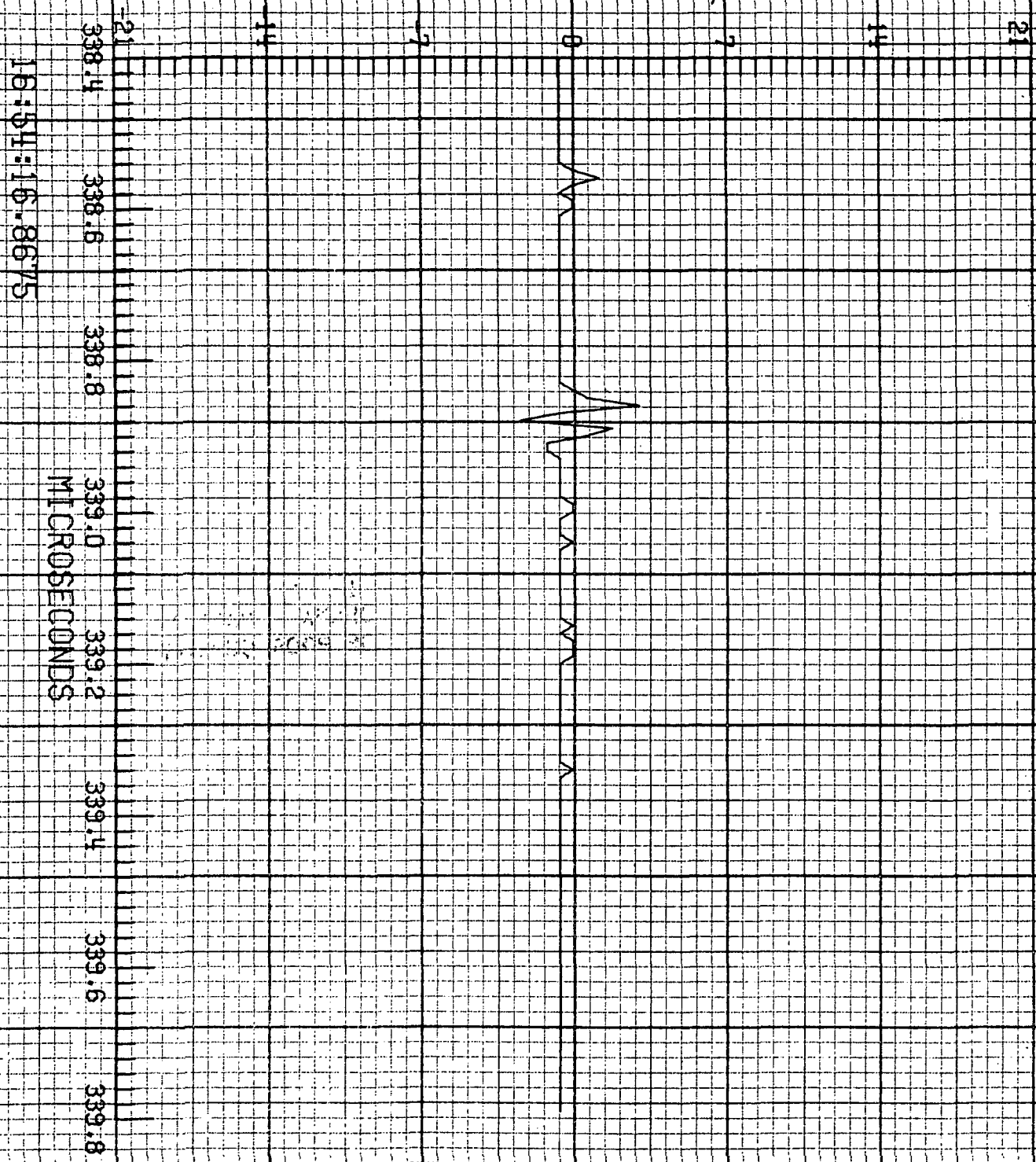
F106 LIGHTNING/TK 8/M. THOMAS

TEST NO. 83-032

RUN NO. 12

S-008

D DOT FWD A/m^2



F106 LIGHTNING/TK 8/M. THOMAS
RUN NO. 12

S-008

TEST NO. 83-032

D DOT FWD A/m^2

16:54:16.8675

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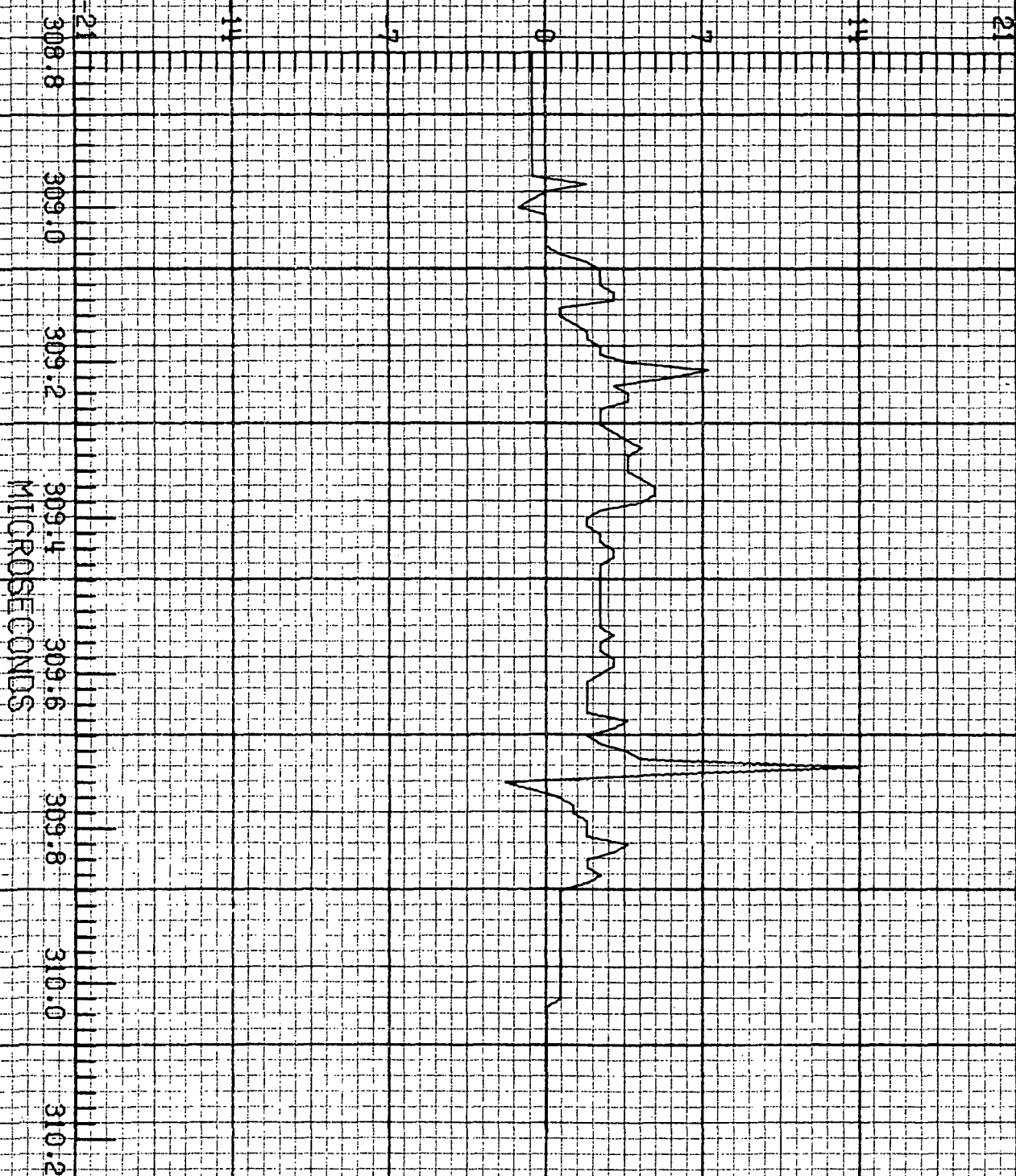
F106 LIGHTNING/TK 8/M. THOMAS

TEST NO. 83-033

RUN NO. 1

S-001

D DOT FWD A/m^2



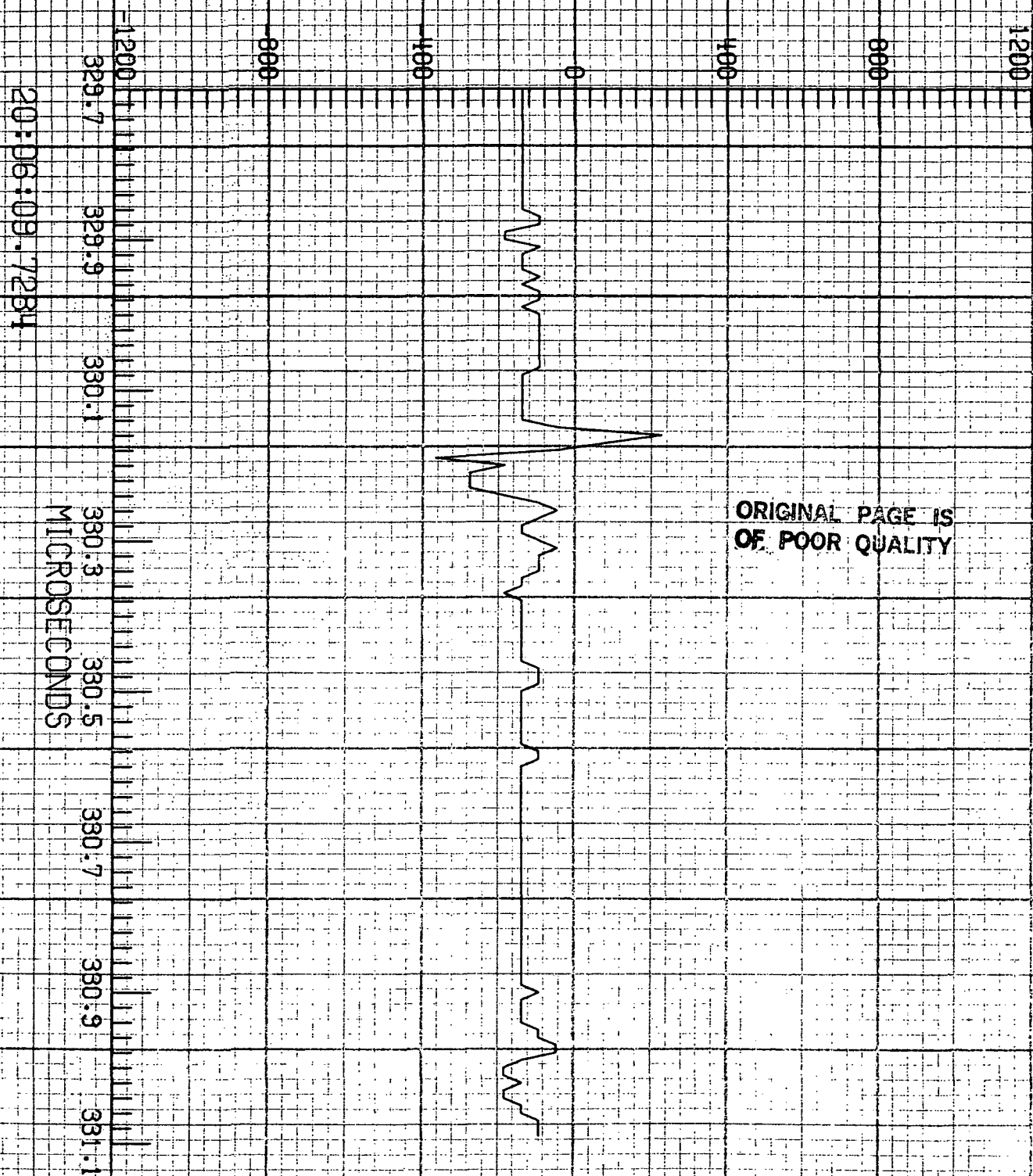
F106 LIGHTNING/TK 10/M.THOMAS

TEST NO. 83-033

RUN NO. 1

S-001

B DOT L T/S



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F106 LIGHTNING/TK 10/M.THOMAS

TEST NO. 83-033

RUN NO. 1

S-001

B DOT L T/S

1200 800 400 0 400 800 1200

20:06:09.7284

MICROSECONDS

1184.8 1185.0 1185.2 1185.4 1185.6 1185.8 1186.0 1186.2

4-20-85 11:00 AM
1185.0 1186.0

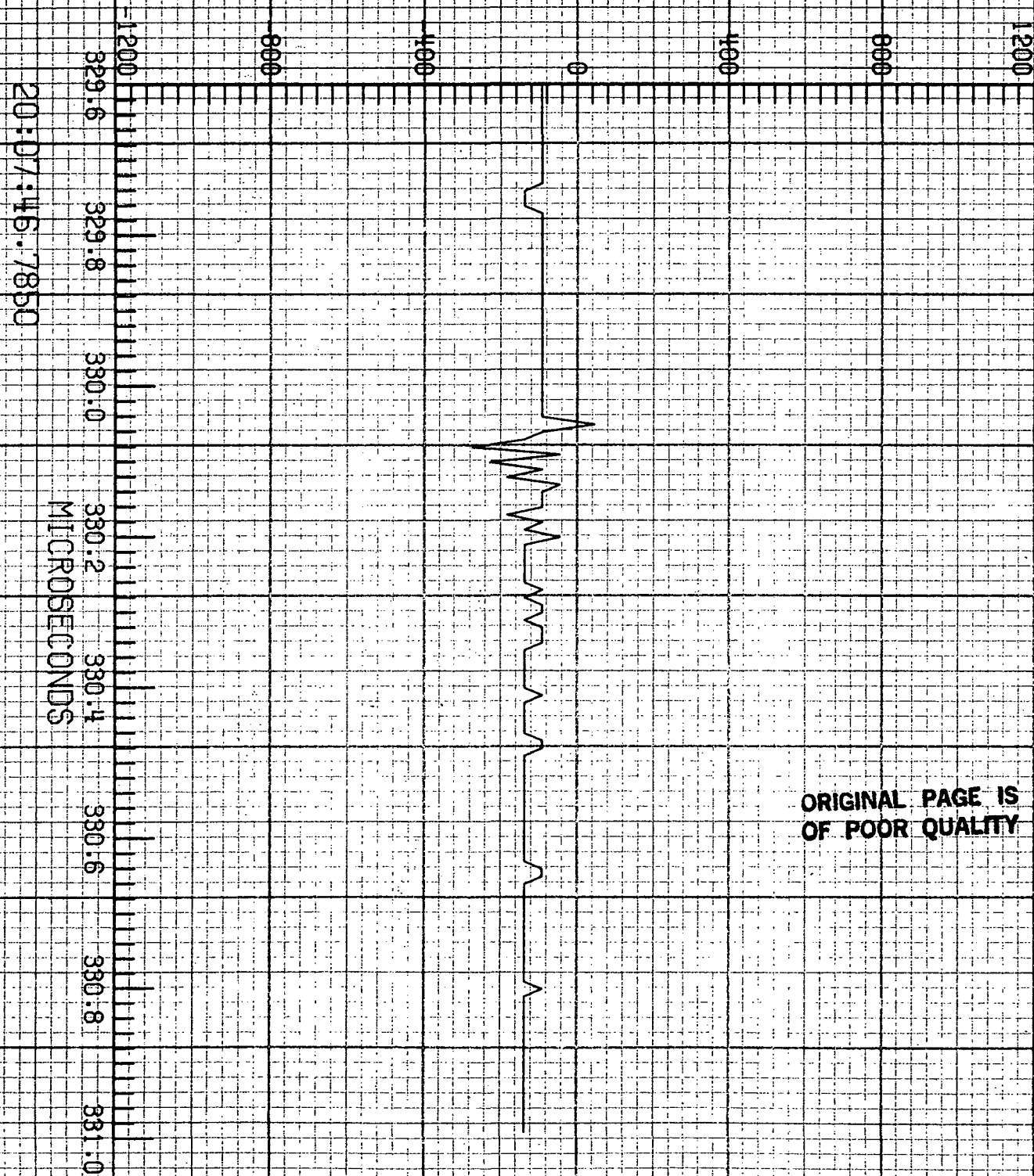
F106 LIGHTNING/TK 10/M.THOMAS

TEST NO. 83-033

RUN NO. 2

N=001

B DOT L T/S



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F106 LIGHTNING/TK 10/M.THOMAS

TEST NO. 83-033

RUN NO. 3

N=002

B DOT 1 T/S

-1200 -800 -400 0 400 800 1200

329.7

329.9

330.1

330.3

330.5

330.7

330.9

331.1

20:14:52.0520

MICROSECONDS

F106 LIGHTNING/TK 10/M.THOMAS

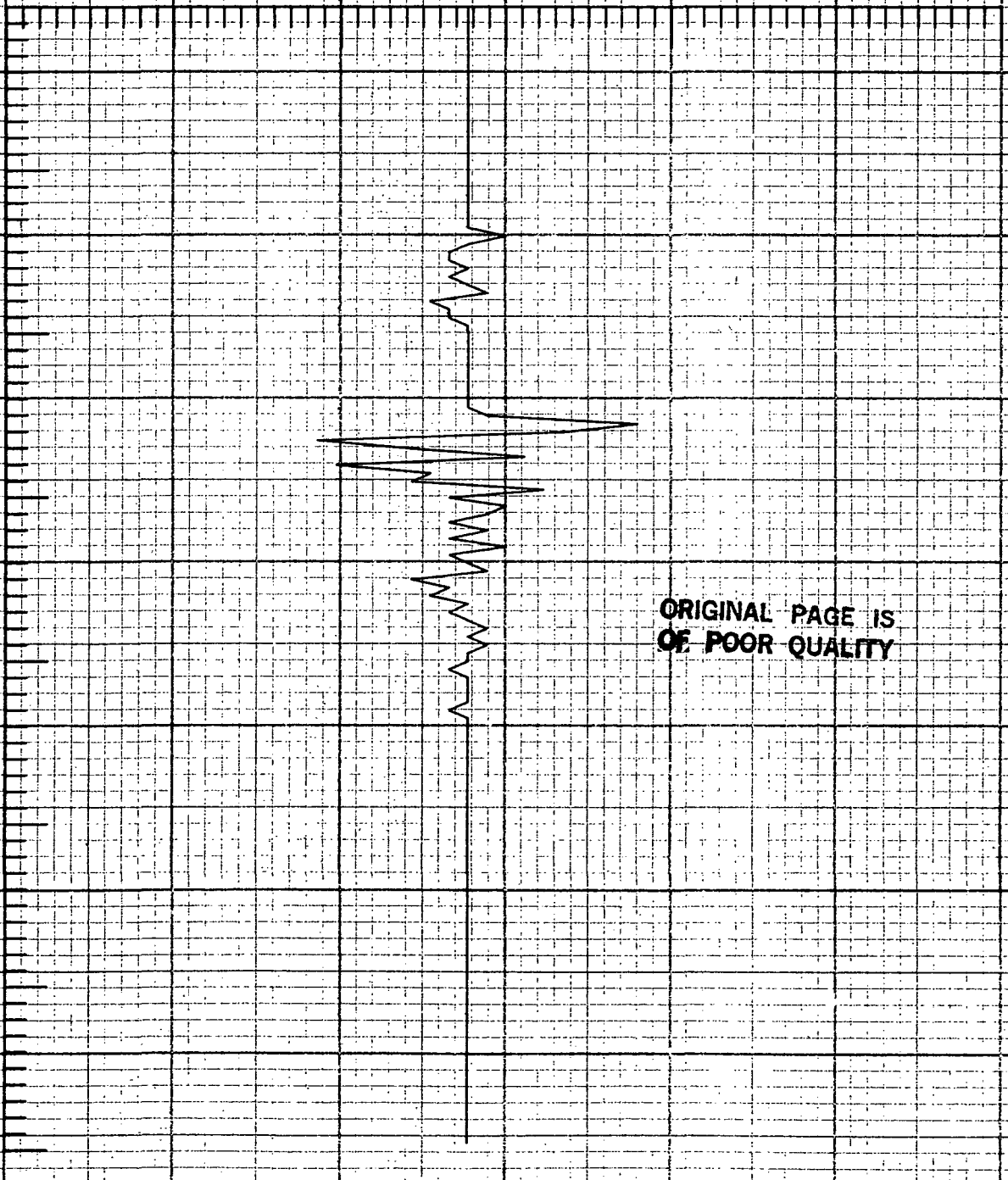
TEST NO. 83-033

RUN NO. 4

S-002

B DOT I T/S

1200
800
400
0
-400
-800
-1200



20:15:19.2320

MICROSECONDS

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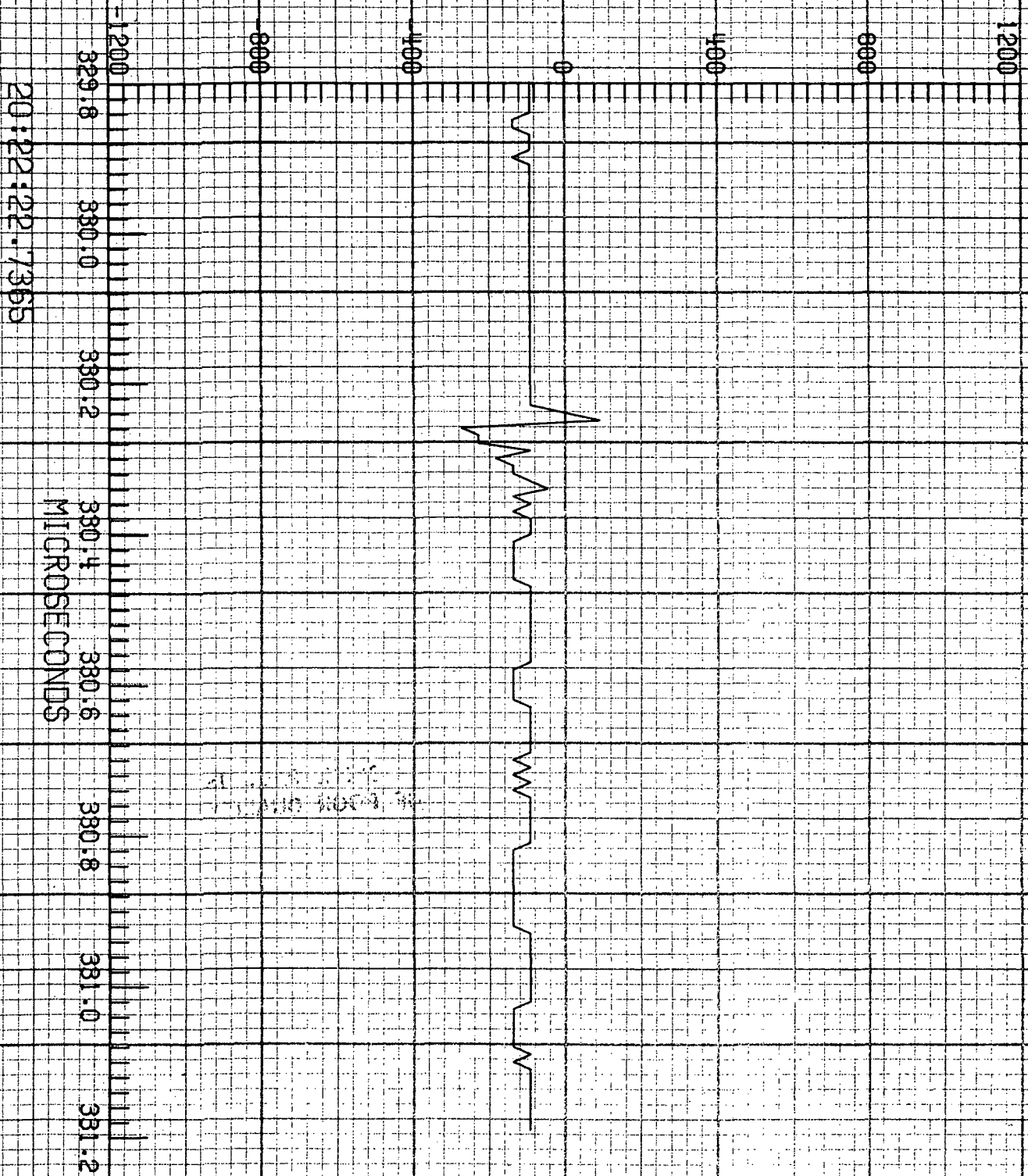
F106 LIGHTNING/TK 10/M. THOMAS

TEST NO. 83-033

RUN NO. 5

N=003

B DOT 1 T/S



TEST NO. 83-033

S-003

 A/m^2

2

60-7890-10

20:23:04.4005

MICROSECONDS

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F106 LIGHTNING/TK 10/M.THOMAS

TEST NO. 83-033

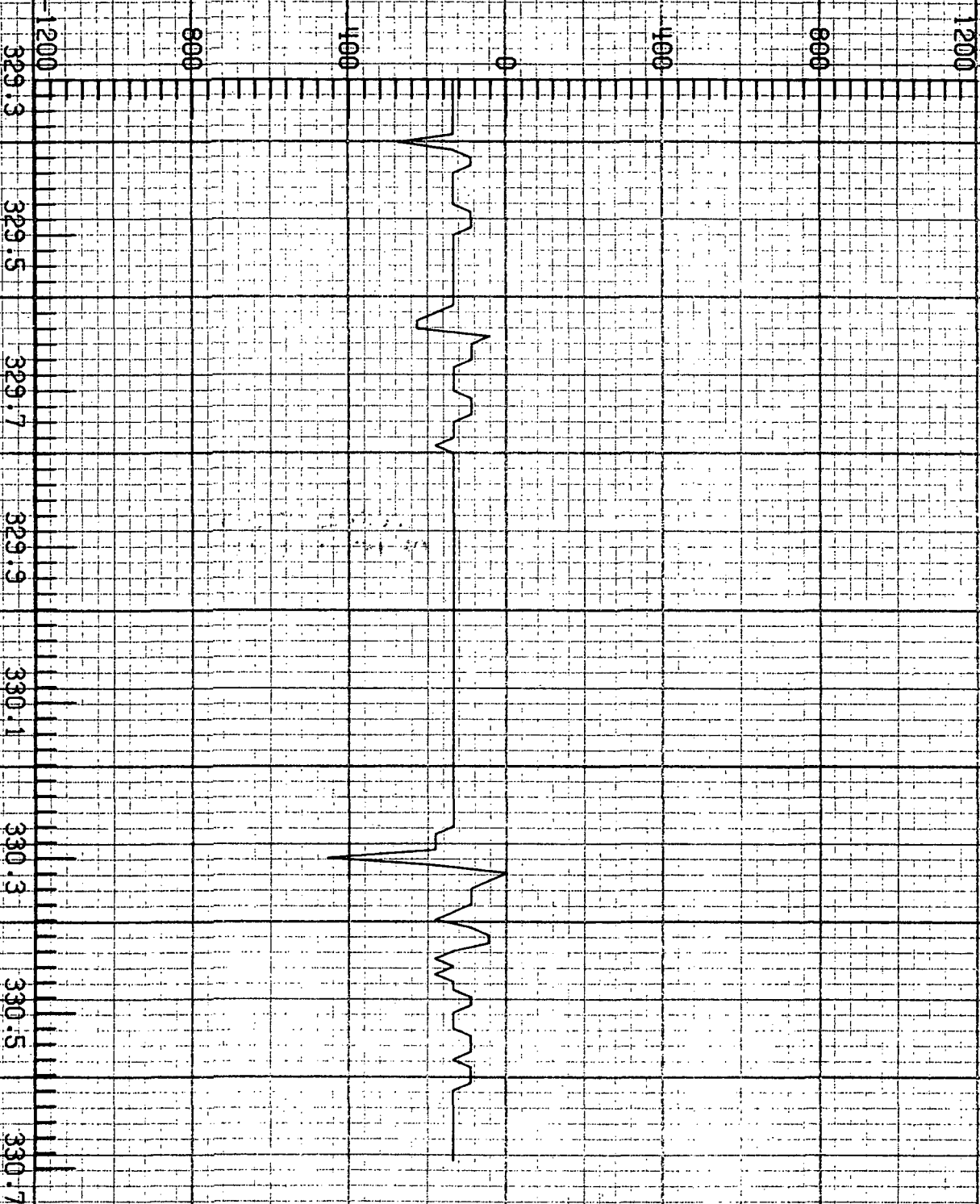
RUN NO. 6

S-003

B DOT L T/S

20:23:04.4009

MICROSECONDS



F106 LIGHTNING/TK 8/M. THOMAS
RUN NO. 7

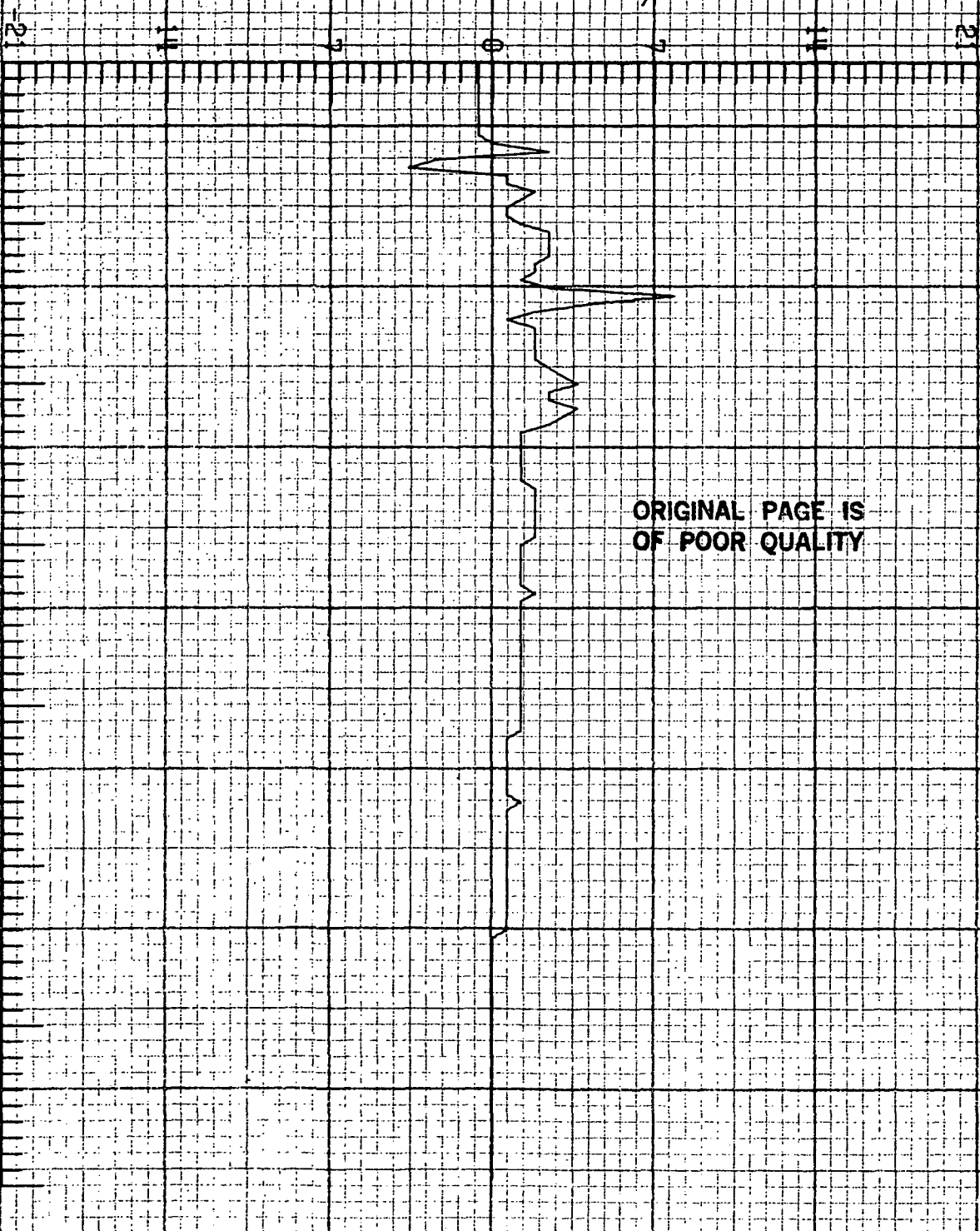
S-004

TEST NO. 83-033

D DOT FWD A/m^2

20:23:25.7524

330.1
330.3
330.5
330.7
330.9
331.1
331.3
331.5
MICROSECONDS



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F106 LIGHTNING/TK 10/M. THOMAS

TEST NO. 83-033

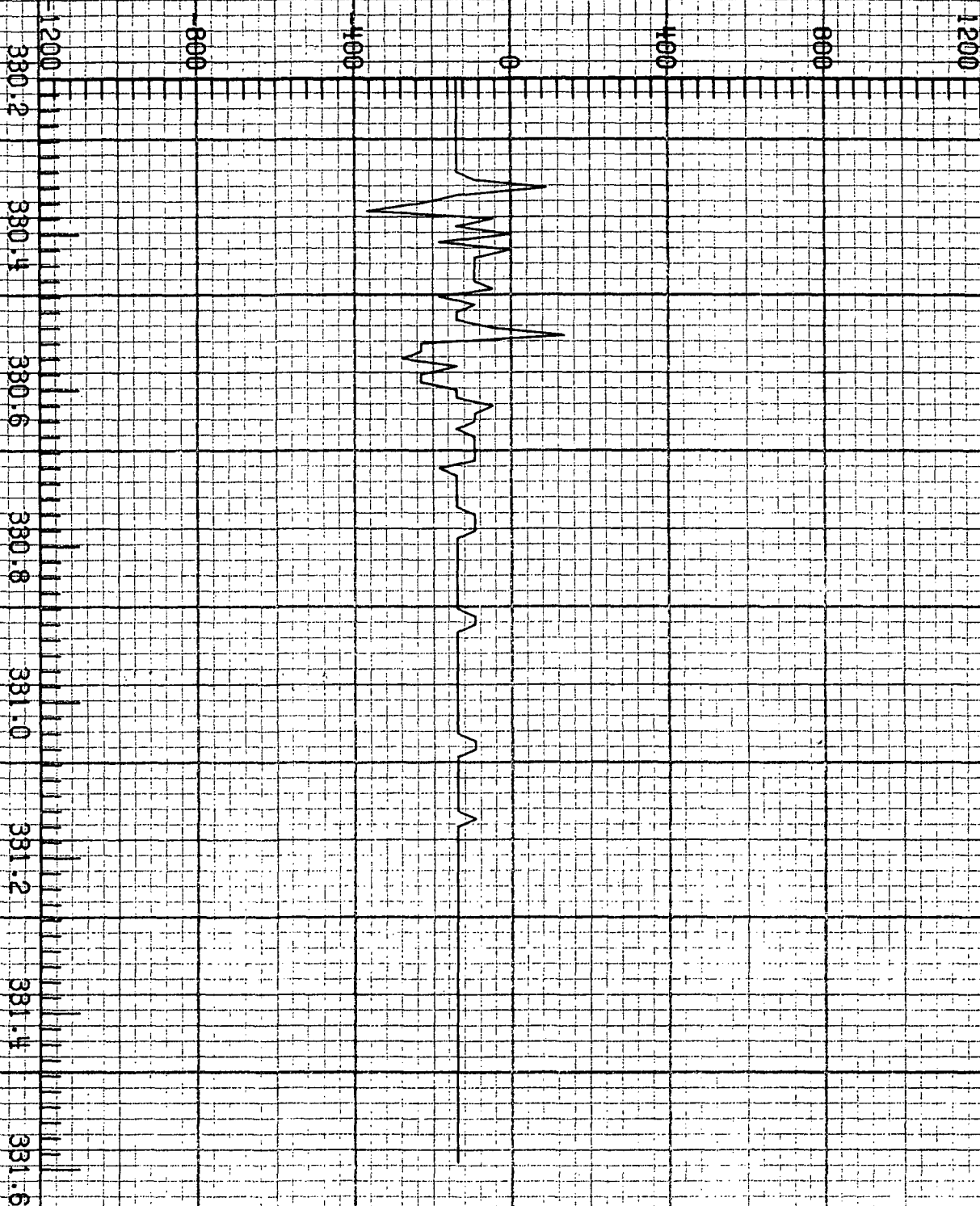
RUN NO. 7

S-004

B DOT I T/S

20:23:25.7519

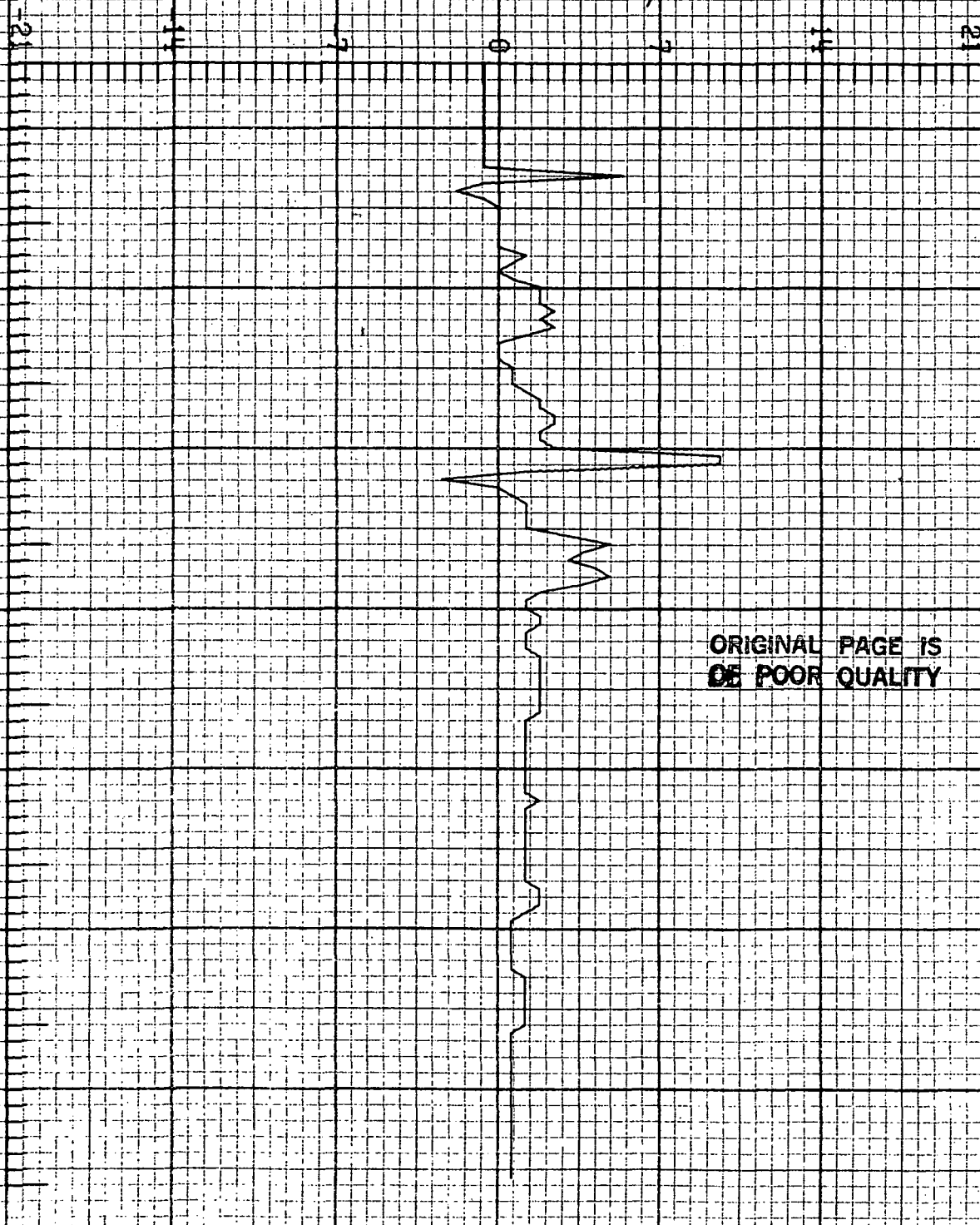
MICROSECONDS



F106 LIGHTNING/TK 8/M. THOMAS
RUN NO. 8 S-005

TEST NO. 83-033

D DOT FWD A/m^2



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F106 LIGHTNING/TK 10/M. THOMAS

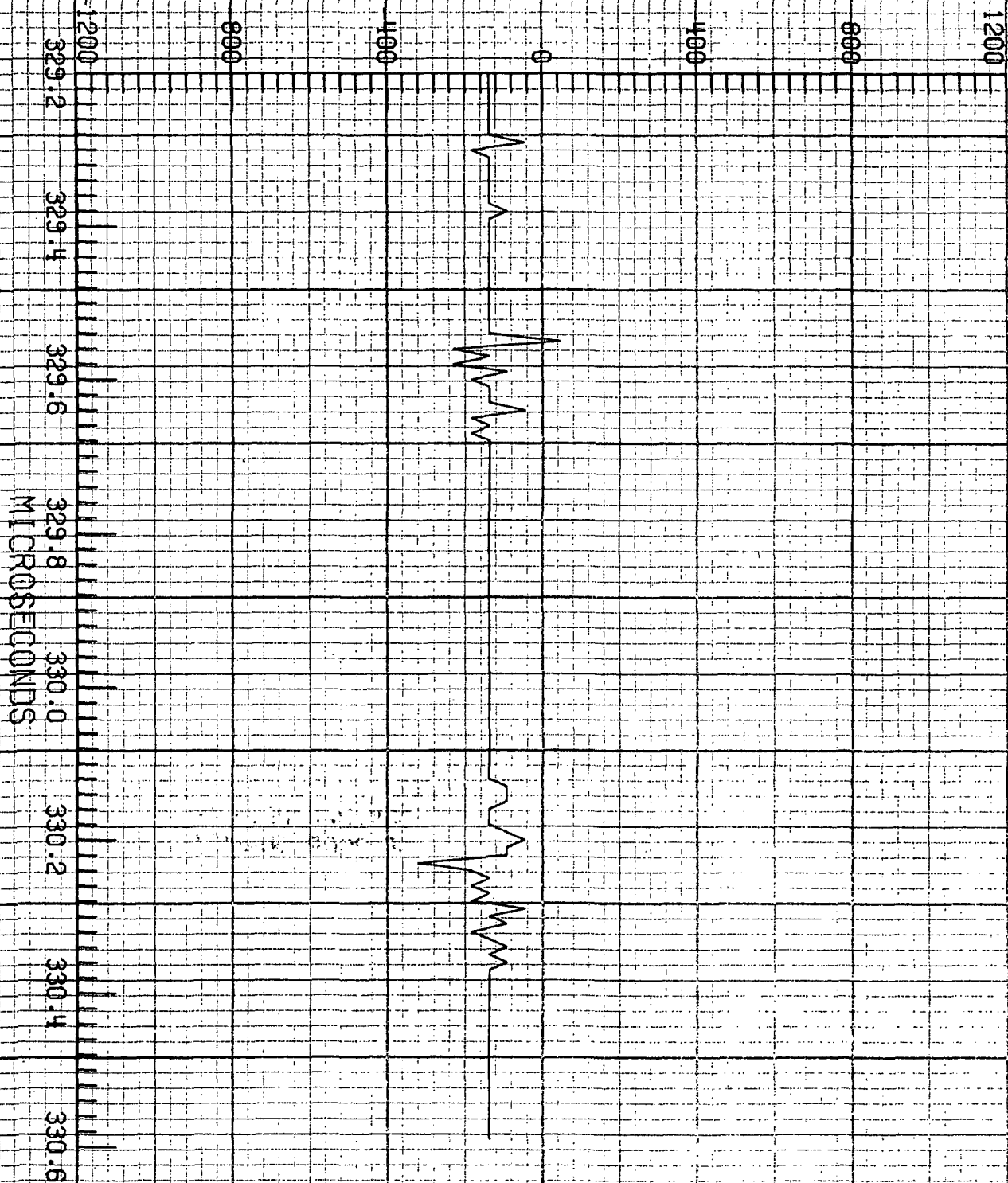
TEST NO. 83-033

RUN NO. 8

S-005

B DOT 1 T/S

20:24:13.6483



F106 LIGHTNING/TK 10/M.THOMAS

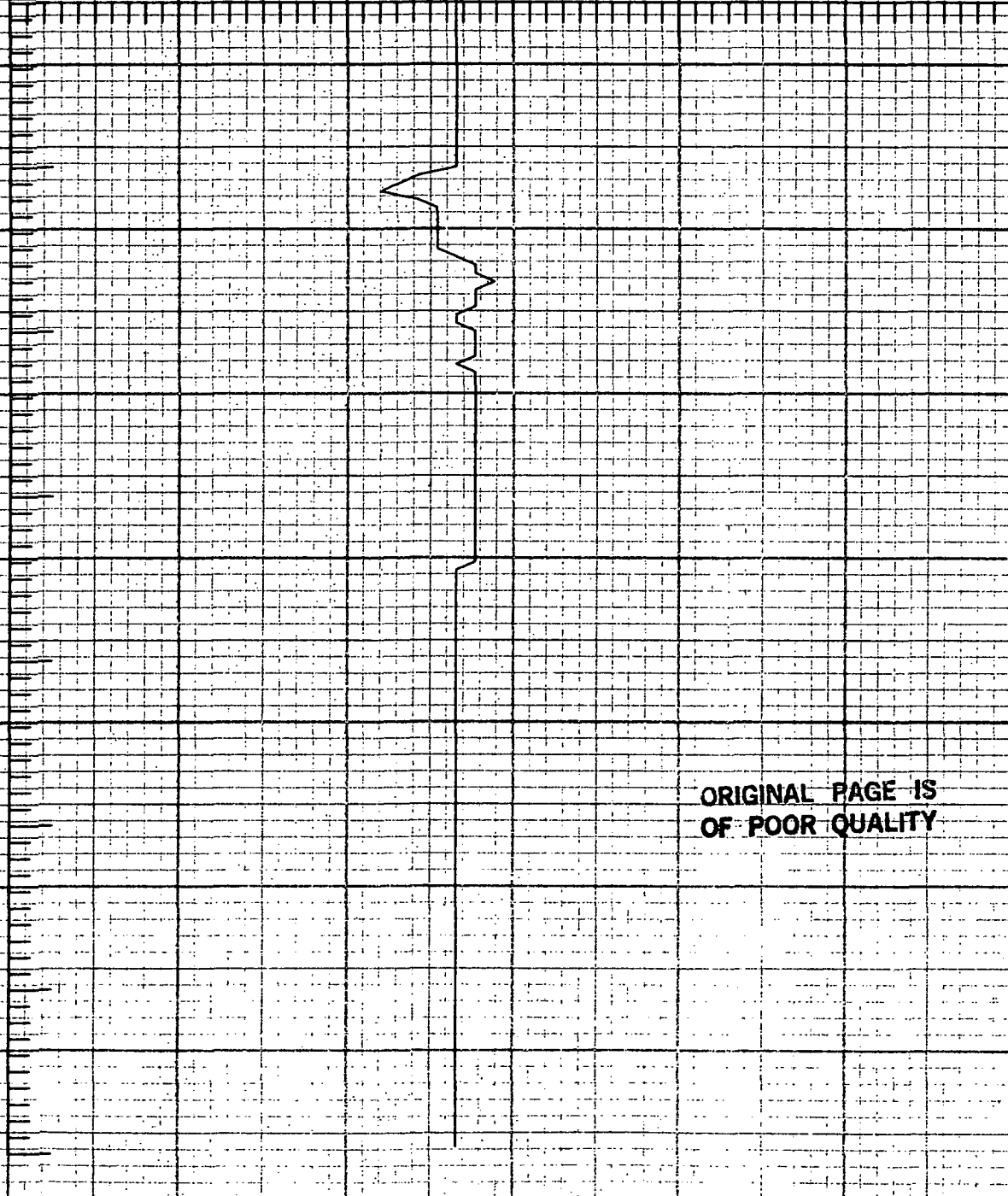
TEST NO. 83-033

RUN NO. 9

S-006

B DOT L T/S

1200
800
400
0
400
800
1200



20:24:25.3812

MICROSECONDS

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ORIGINAL PAGE IS
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F106 LIGHTNING/TK 10/M.THOMAS

TEST NO. 83-033

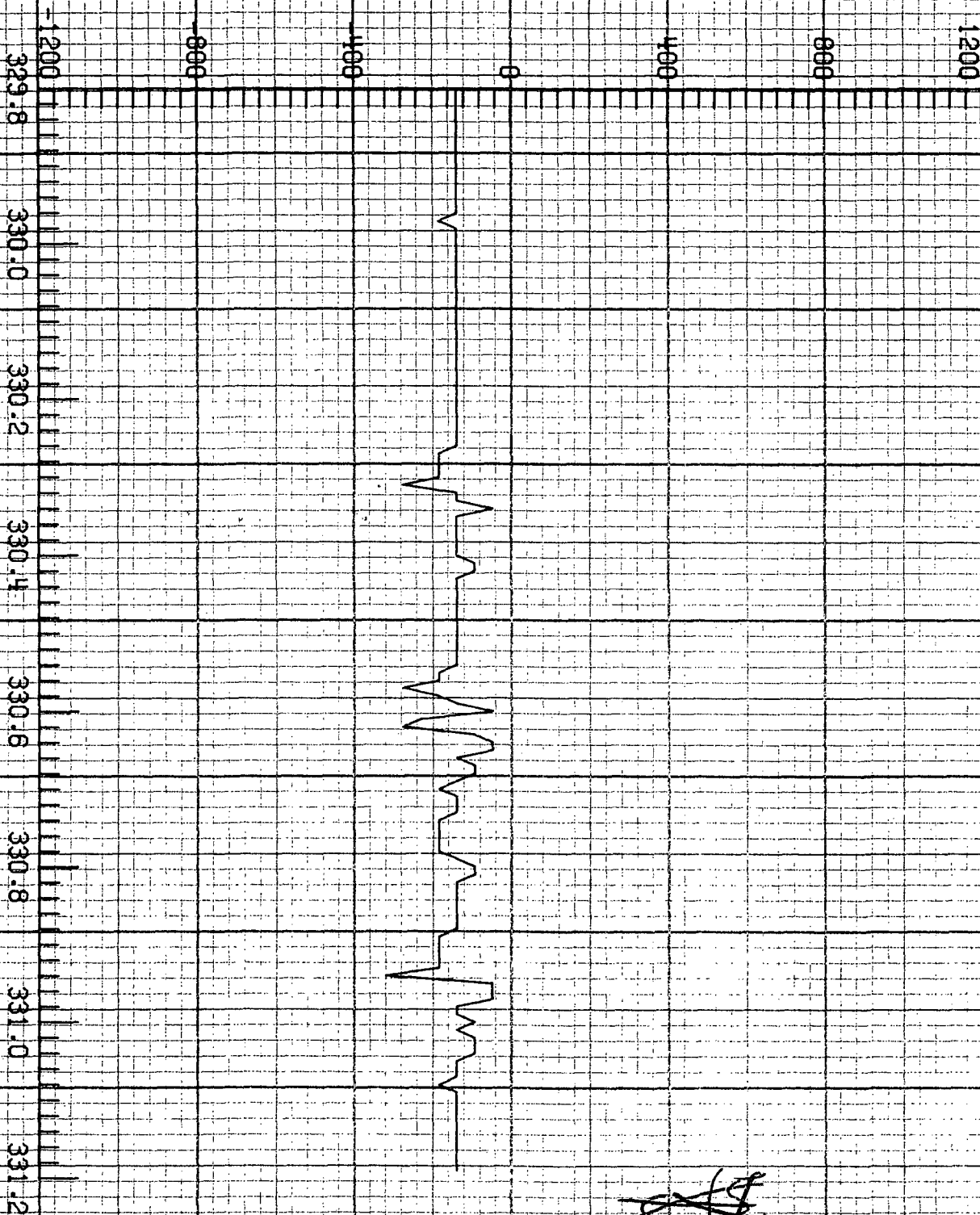
RUN NO. 10

N-004

B DOT L T/S

20:27:24.4655

MICROSECONDS



F106 LIGHTNING/TK 10/M.THOMAS

TEST NO. 83-033

RUN NO. 10

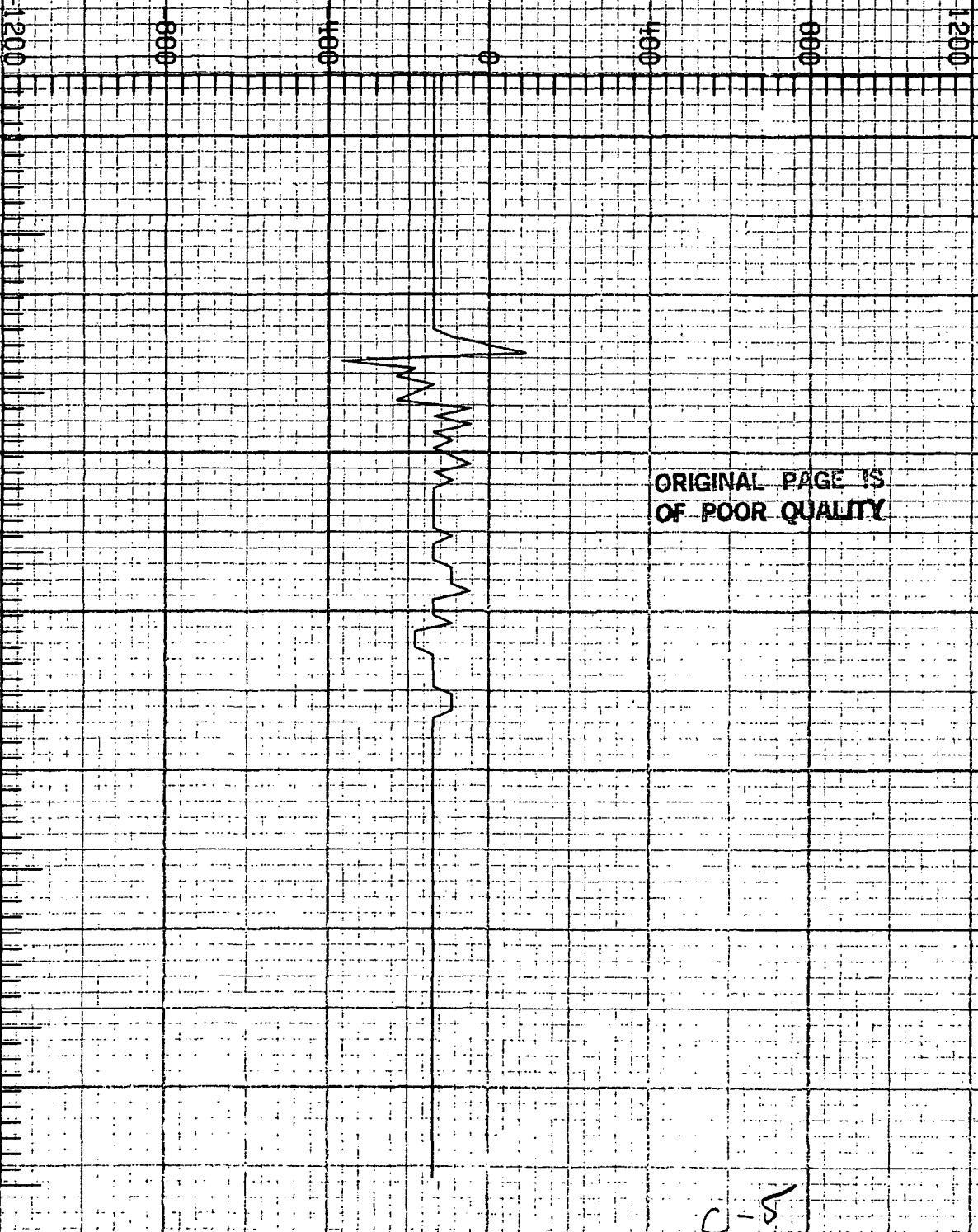
N-004

B DOT L T/S

20:27:21.4655

MICROSECONDS

1024.4 1024.6 1024.8 1025.0 1025.2 1025.4 1025.6 1025.8



ORIGINAL PAGE IS
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C-5

ORIGINAL PAGE IS
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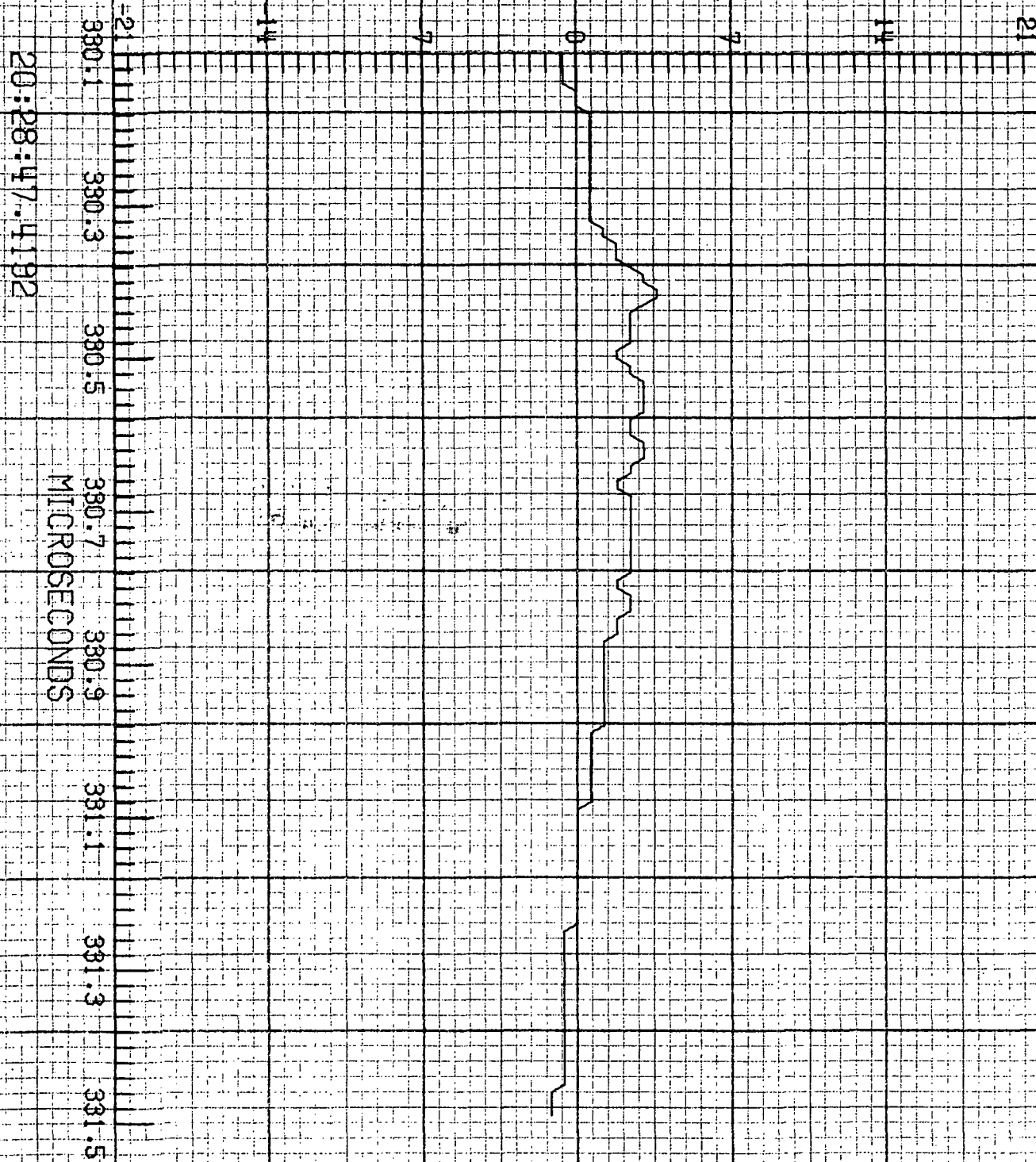
F106 LIGHTNING/TK 8/M. THOMAS

TEST NO. 83-033

RUN NO. 11

S-007

D DOT FWD A/m^2



F106 LIGHTNING/TK 10/M.THOMAS

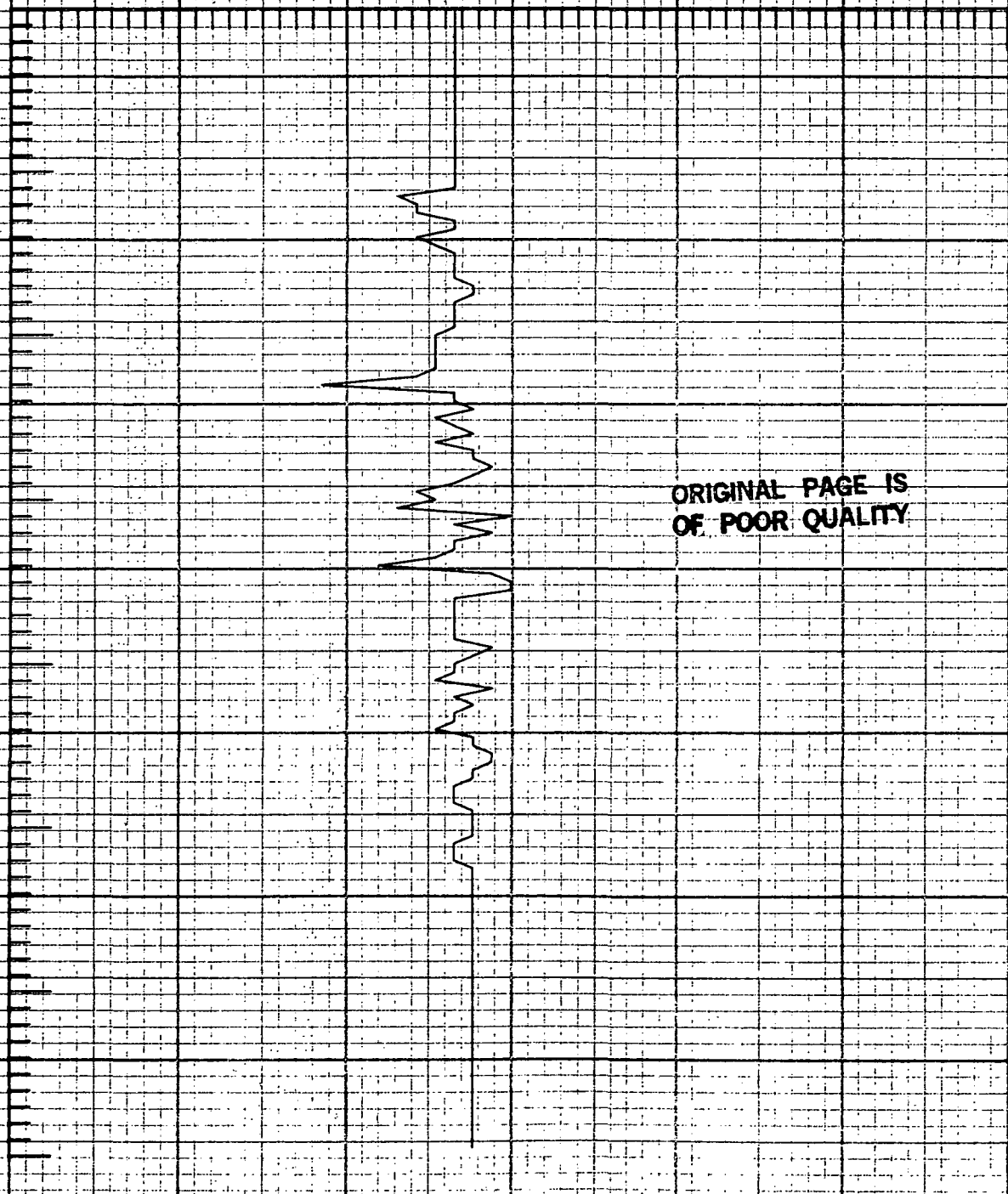
TEST NO. 83-033

RUN NO. 11

S-007

B DOT L T/S

1200
800
400
0
-400
-800
-1200



20:28:47.4204

MICROSECONDS

ORIGINAL PAGE IS
OF POOR QUALITY

F106 LIGHTNING/TK 8/M. THOMAS
RUN NO. 12

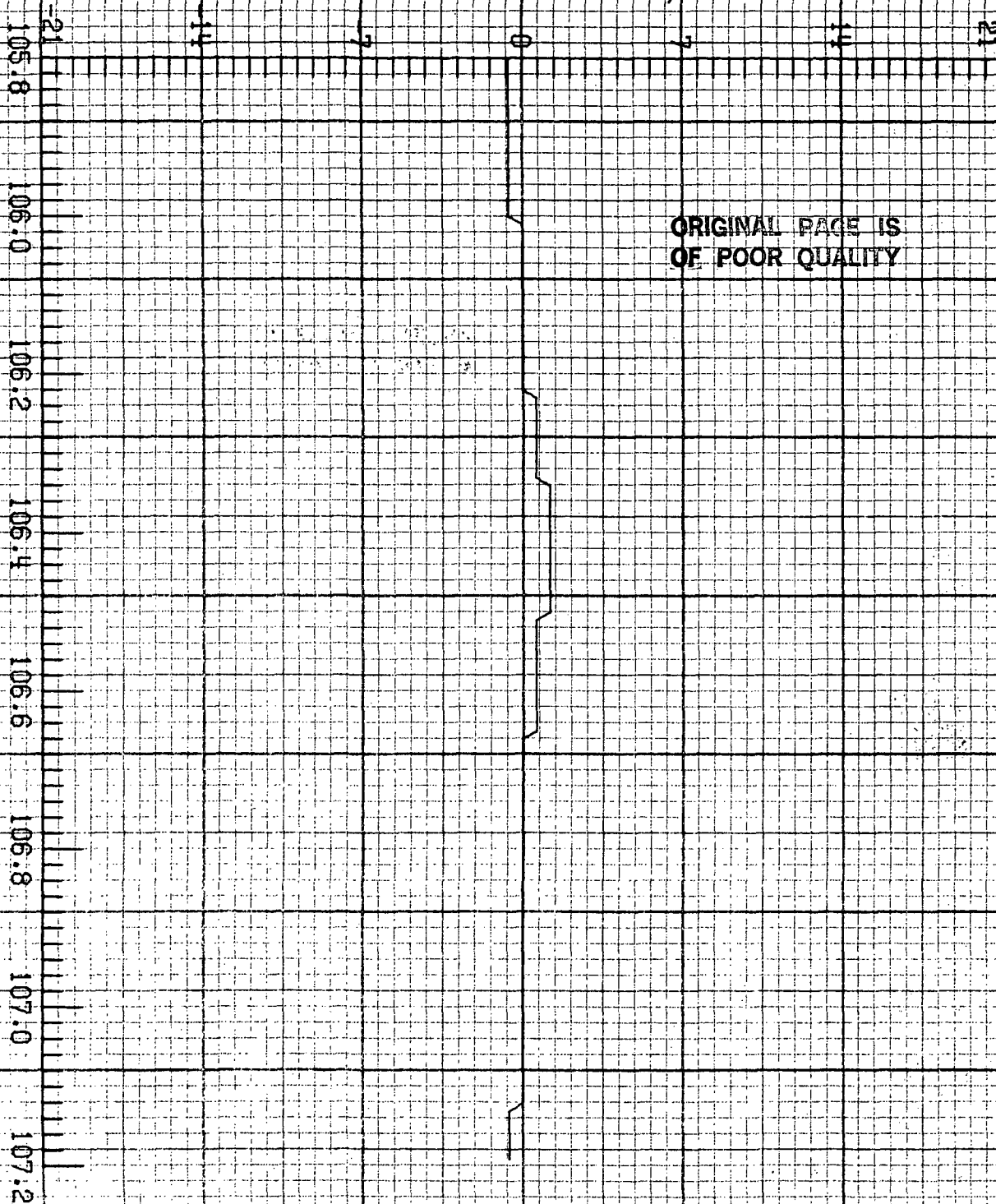
S-008

TEST NO. 83-033

D DOT FWD A/m^2

20:38:43.9363

MICROSECONDS



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F106 LIGHTNING/TK 8/M. THOMAS

TEST NO. 83-033

RUN NO. 12

S-008

DOT FWD

A/m²

20:38:43.9363

329.6
329.8
330.0
330.2
330.4
330.6
330.8
331.0
MICROSECONDS

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F106 LIGHTNING/TK 10/M.THOMAS

TEST NO. 83-033

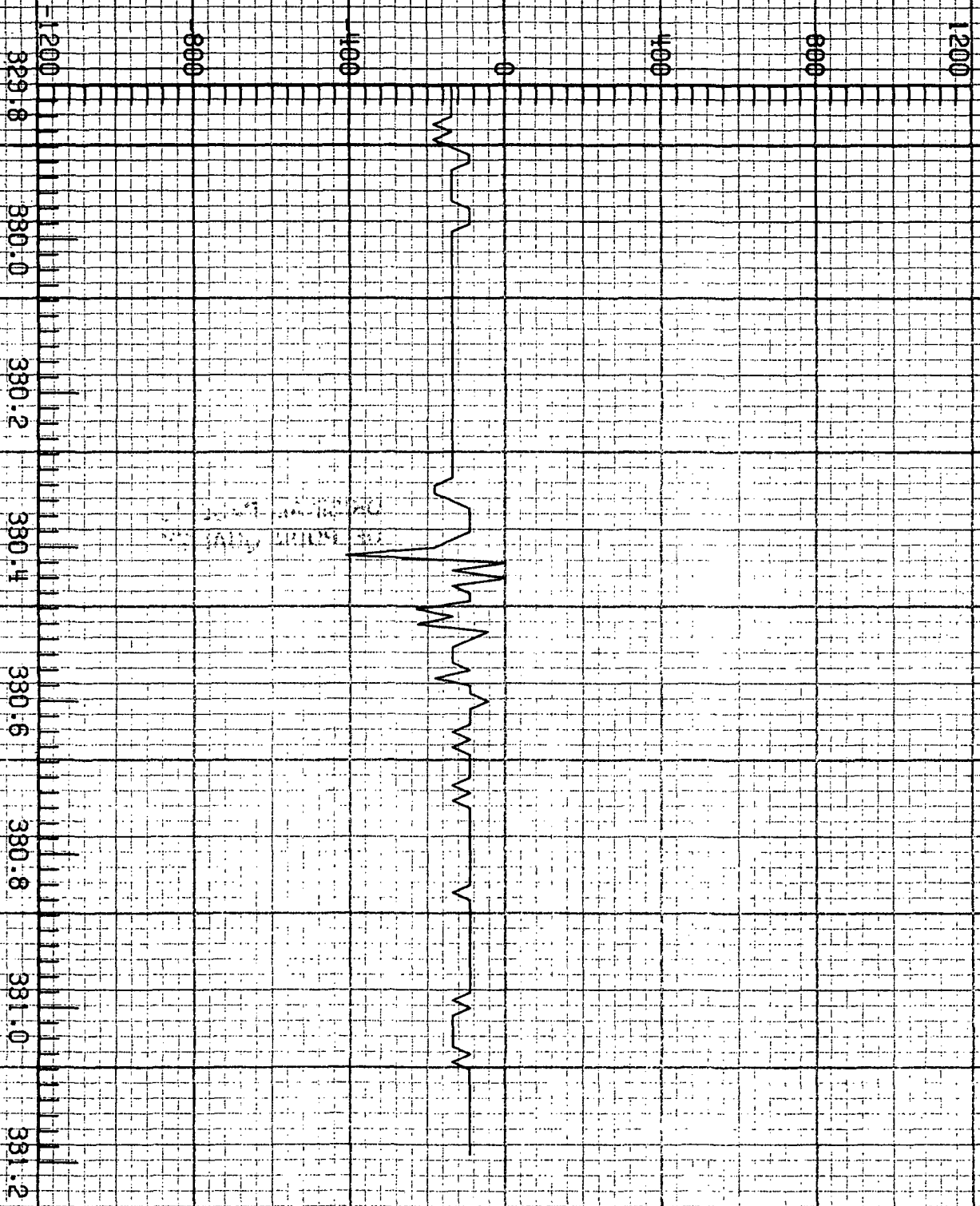
RUN NO. 12

S-008

B DOT 11 T/S

20:38:43.9357

MICROSECONDS



F106 LIGHTNING/TK 8/M. THOMAS
RUN NO. 12 S-008

TEST NO. 83-033

D DOT FWD A/m²

20:38:43.9363

MICROSECONDS

785.4 785.6 785.8 786.0 786.2 786.4 786.6 786.8

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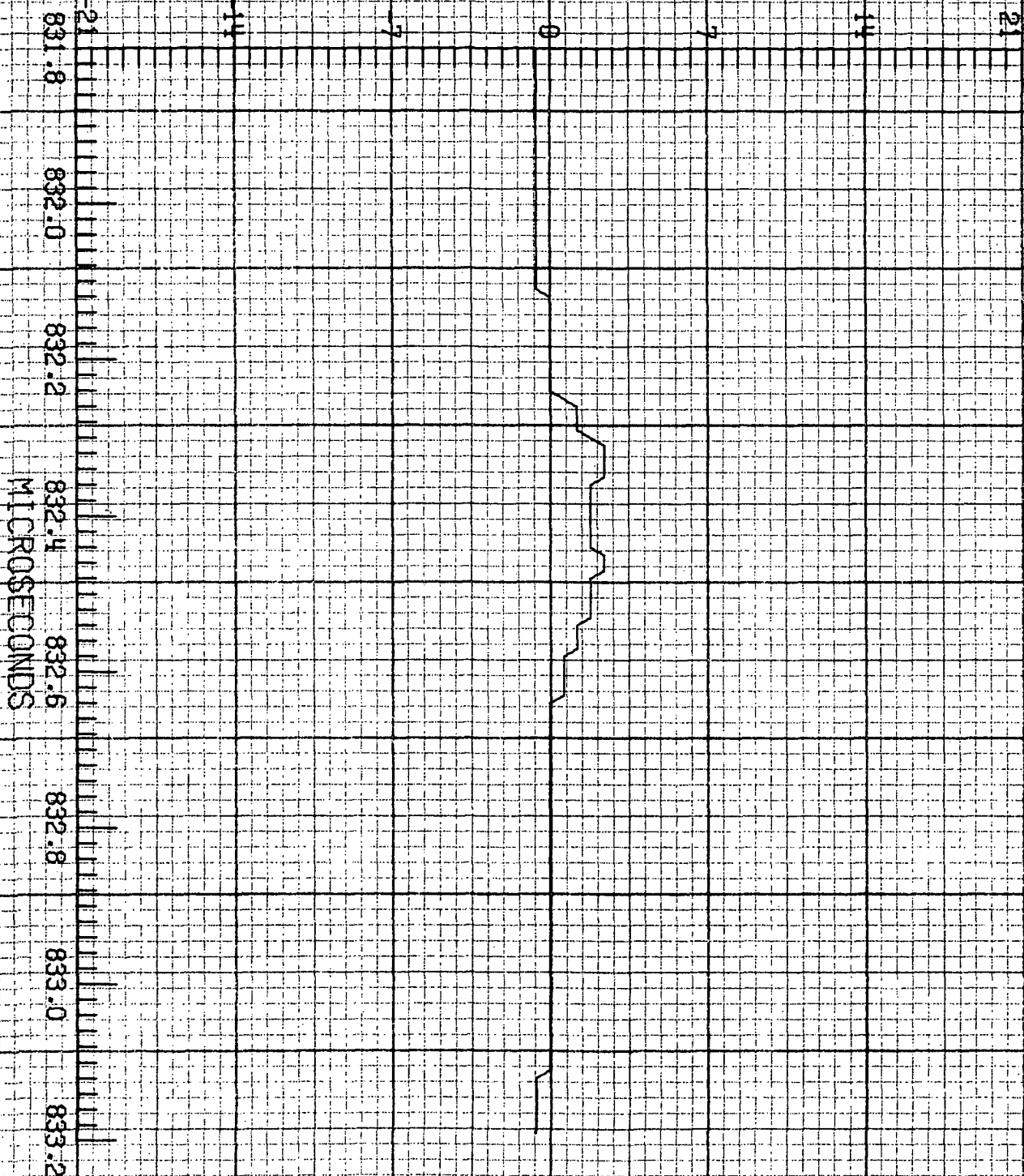
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TEST NO. 83-033

RUN NO. 12

S-008

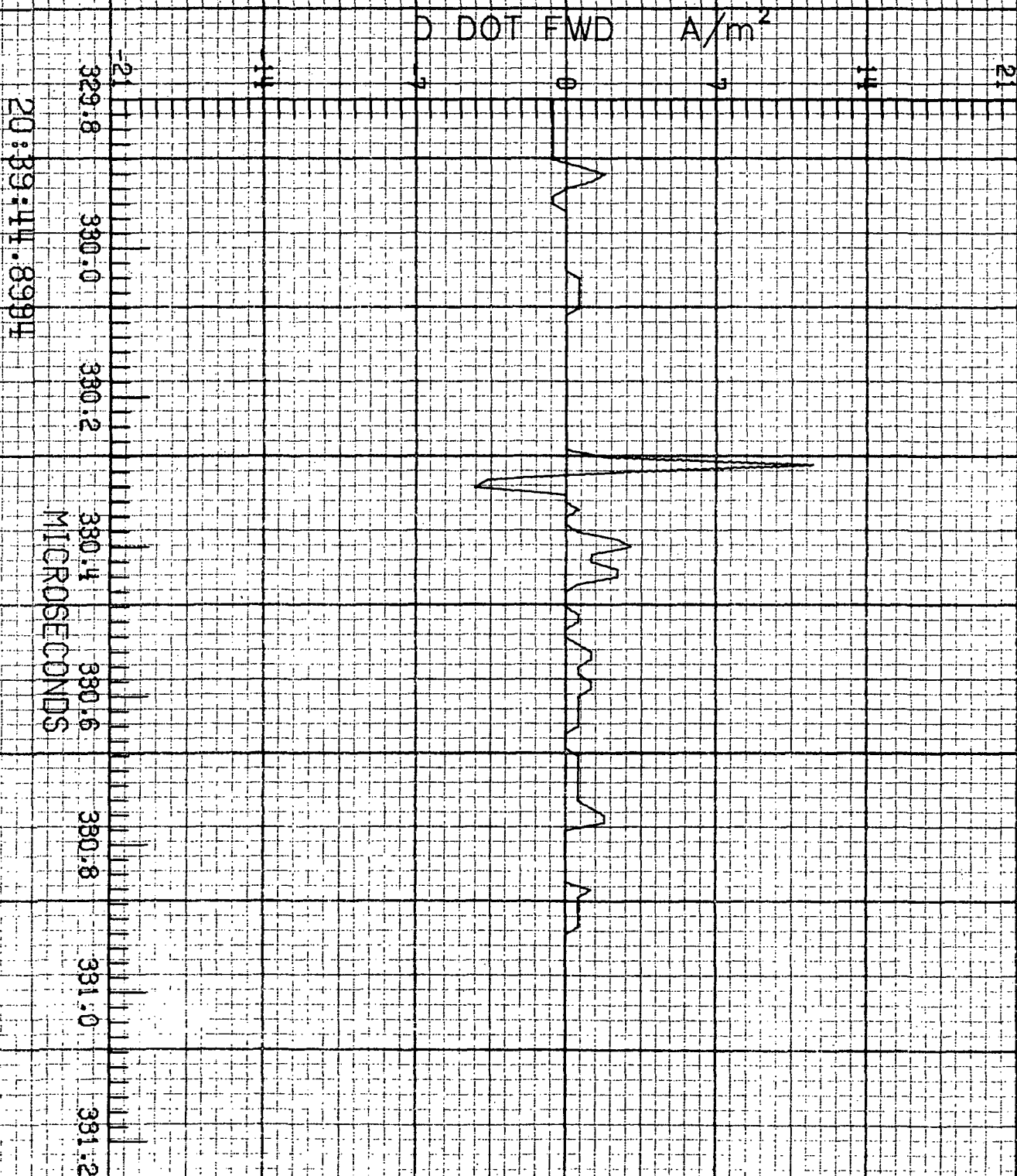
D DOT FWD A/m^2



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F106 LIGHTNING/TK 8/M. THOMAS
RUN NO. 13 S-011

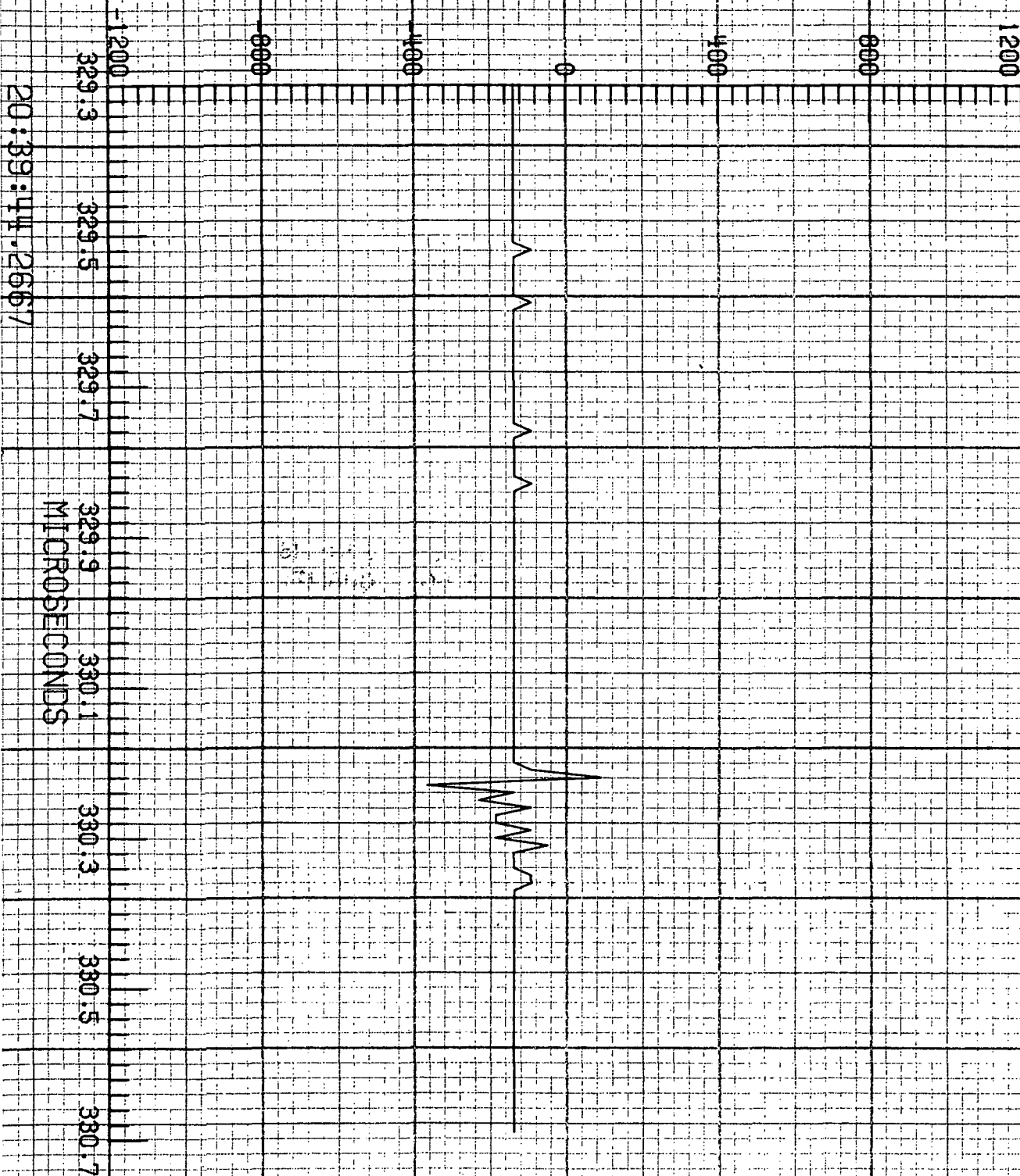
TEST NO. 83-033



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TEST NO. 83-033

F106 LIGHTNING/TK 10/M. THOMAS
RUN NO. 13 N-005

B DOT I T/S



F106 LIGHTNING/TK 8/M. THOMAS
RUN NO. 13

S-011

TEST NO. 83-033

D DOT FWD A/m^2

20:39:44.899H

MICROSECONDS

391.0
391.2
391.4
391.6
391.8
392.0
392.2
392.4

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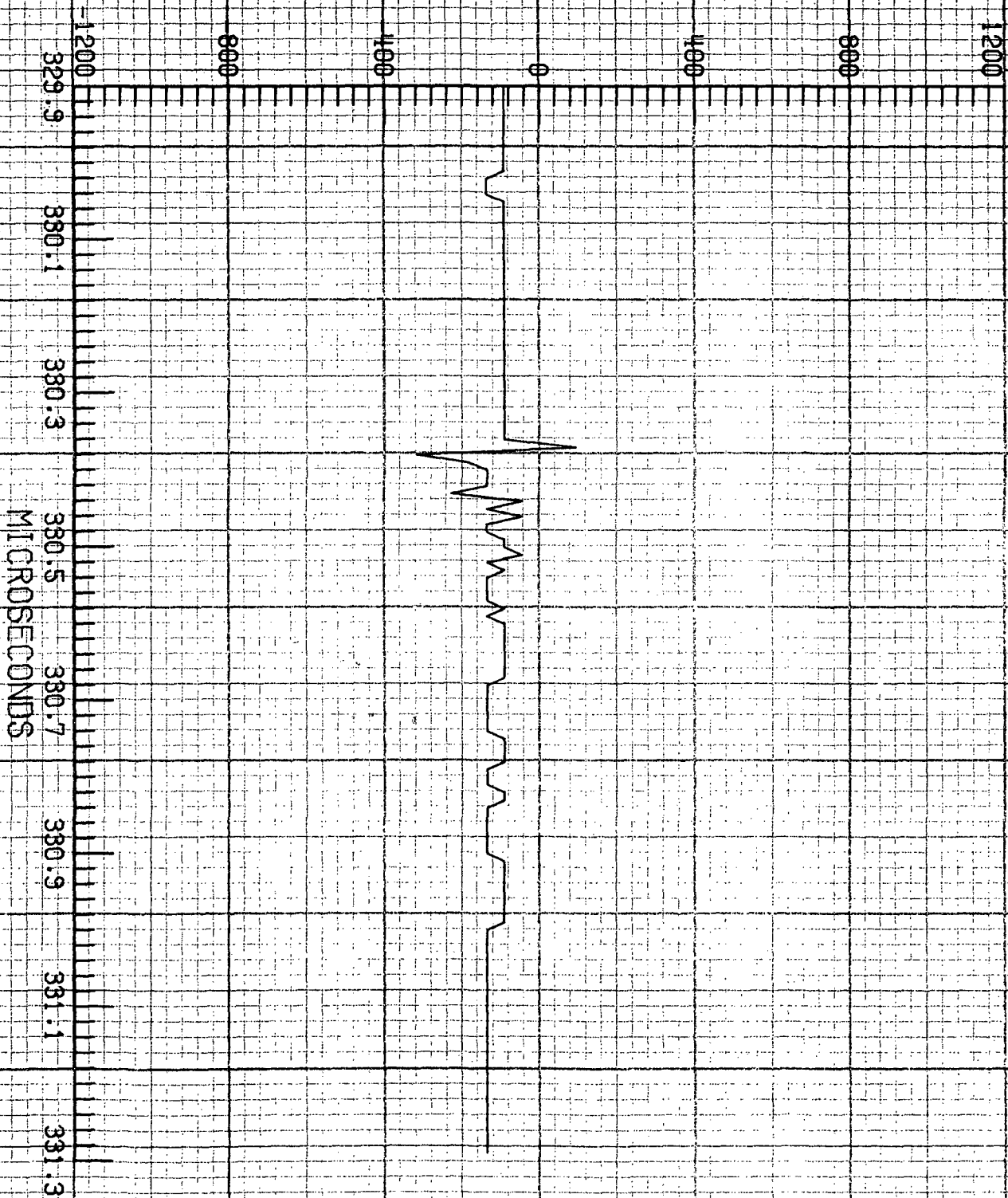
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TEST NO. 83-033

RUN NO. 14

N=006

B DOT L T/S

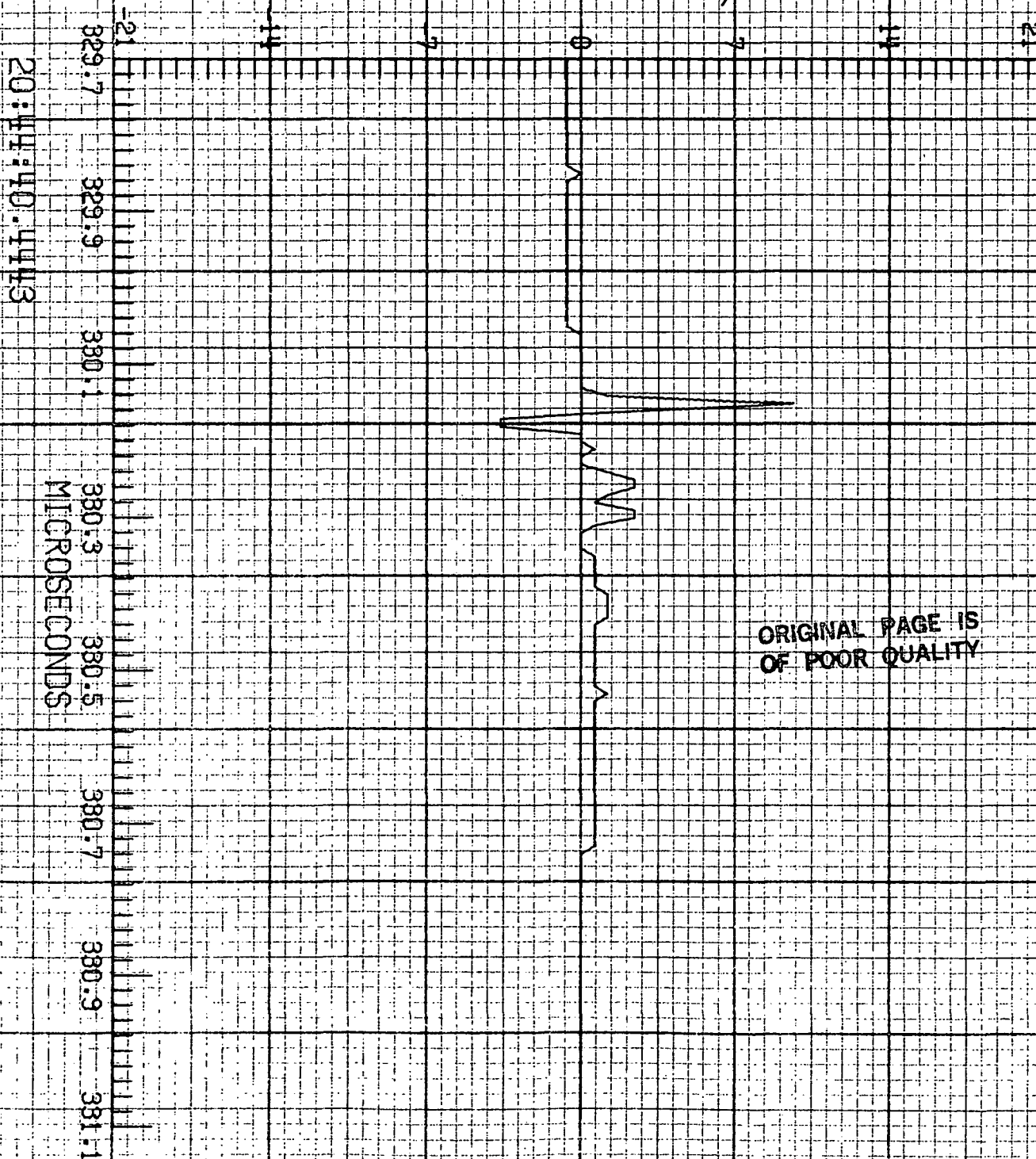


F106 LIGHTNING/TK 8/M. THOMAS
RUN NO. 15

N-007

TEST NO. 83-033

D DOT FWD A/m^2



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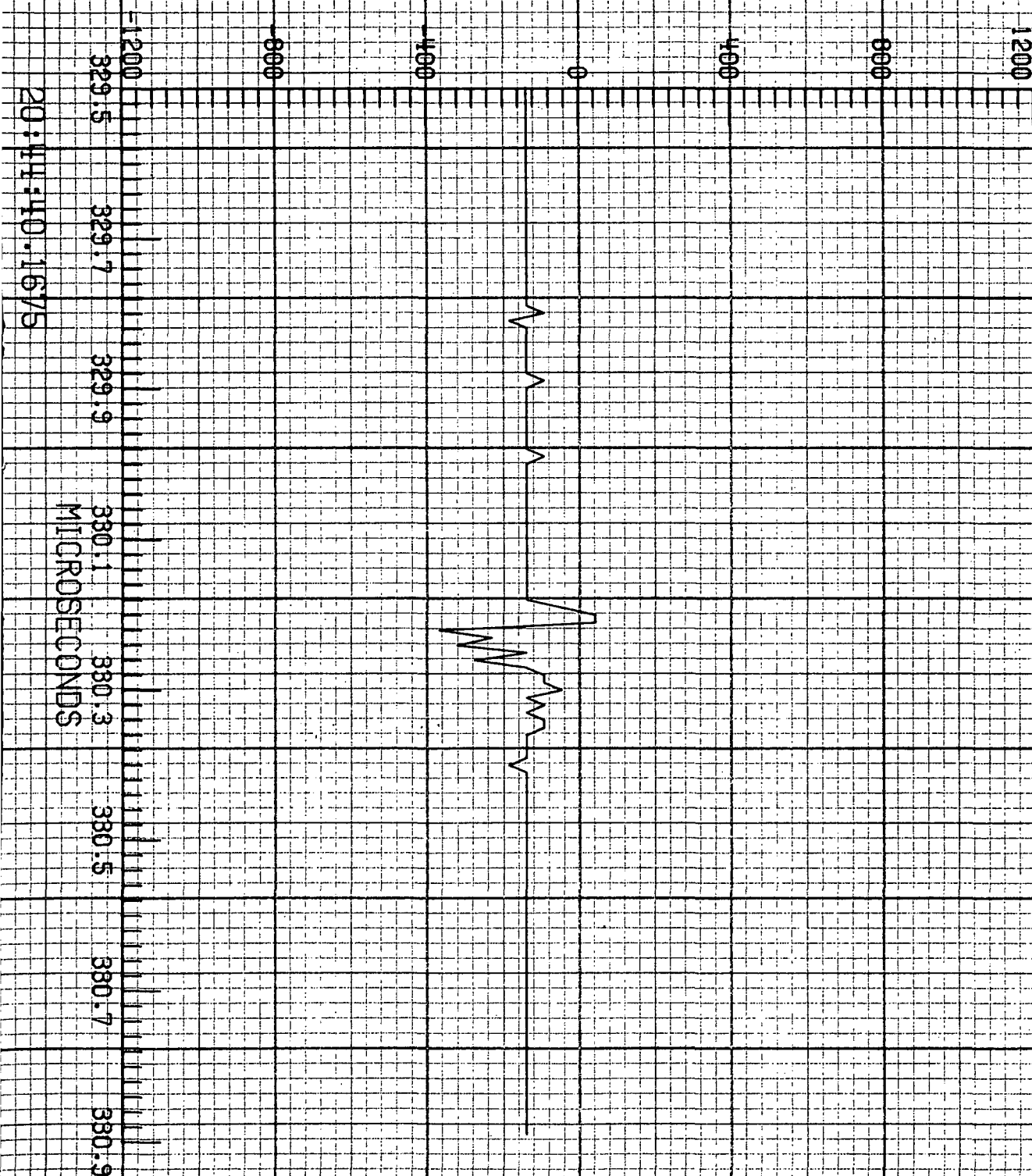
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TEST NO. 83-033

RUN NO. 15

N-007

B DOT II T/S



F106 LIGHTNING/TK 8/M. THOMAS

TEST NO. 83-033

RUN NO. 16

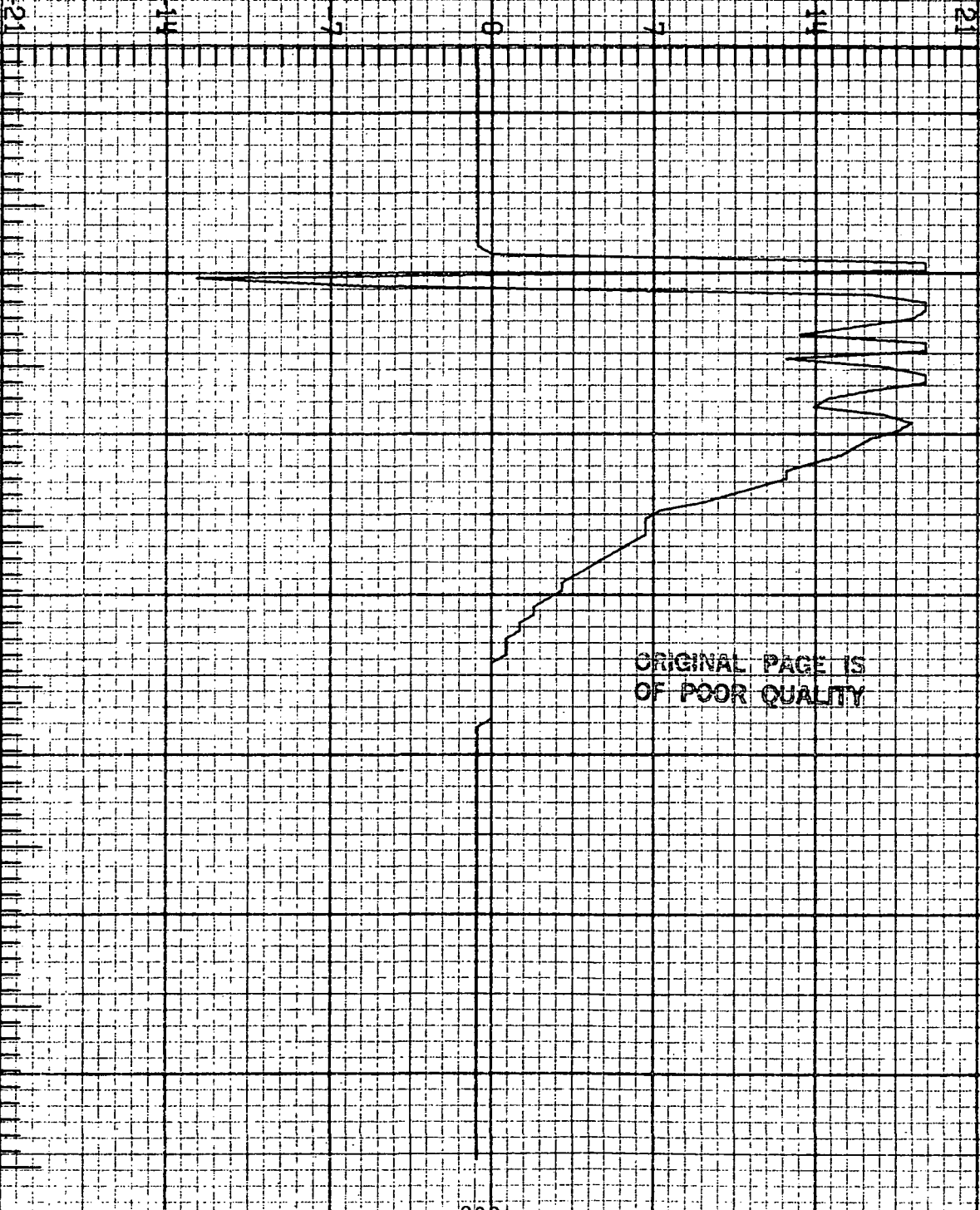
S-012

D DOT FWD A/m^2

20:50:48.9044

MICROSECONDS

329.8
330.0
330.2
330.4
330.6
330.8
331.0
331.2



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F106 LIGHTNING/TK 10/M.THOMAS

TEST NO. 83-033

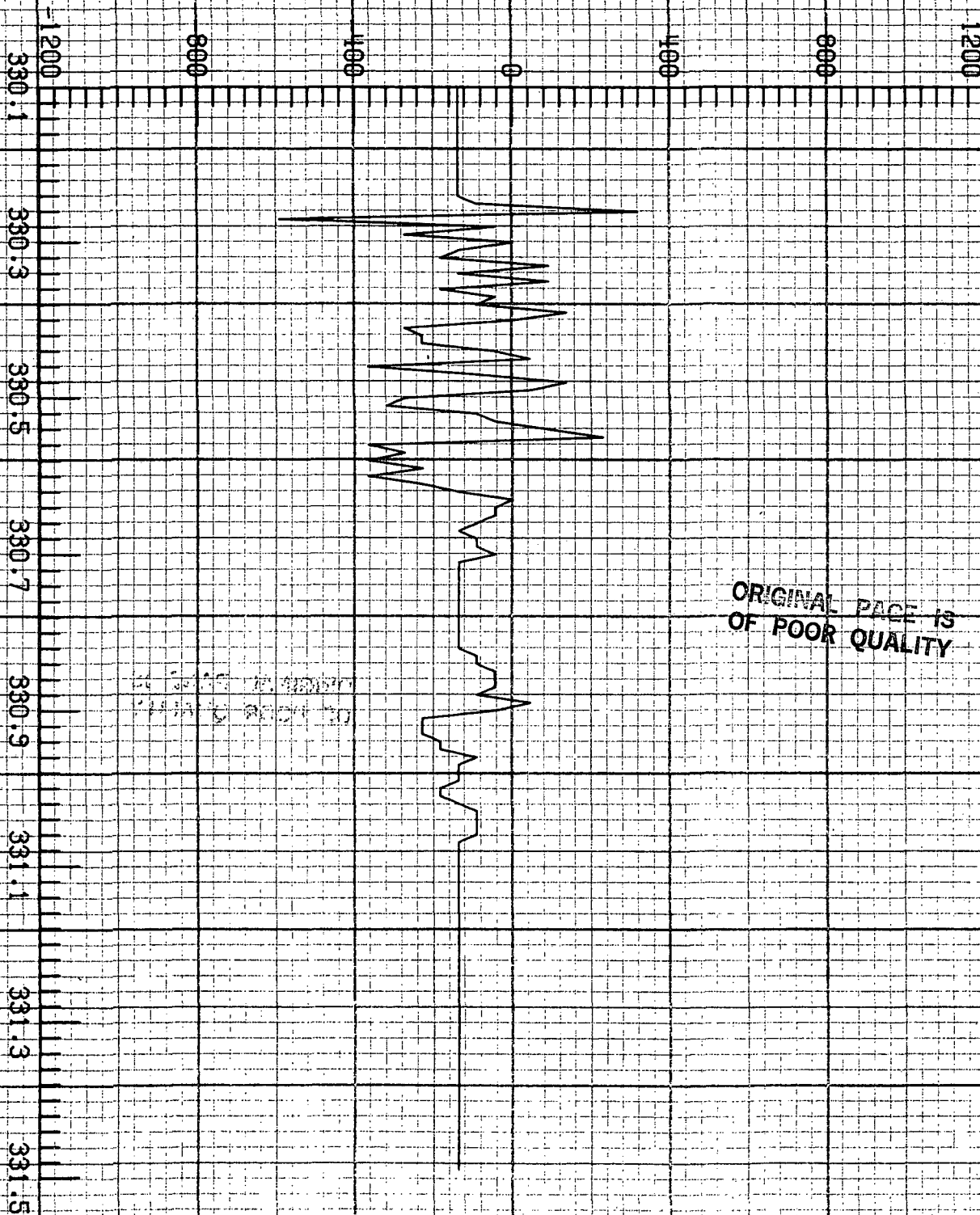
RUN NO. 16

S-012

B DOT II T/S

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MICROSECONDS



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F106 LIGHTNING/TK 10/M.THOMAS

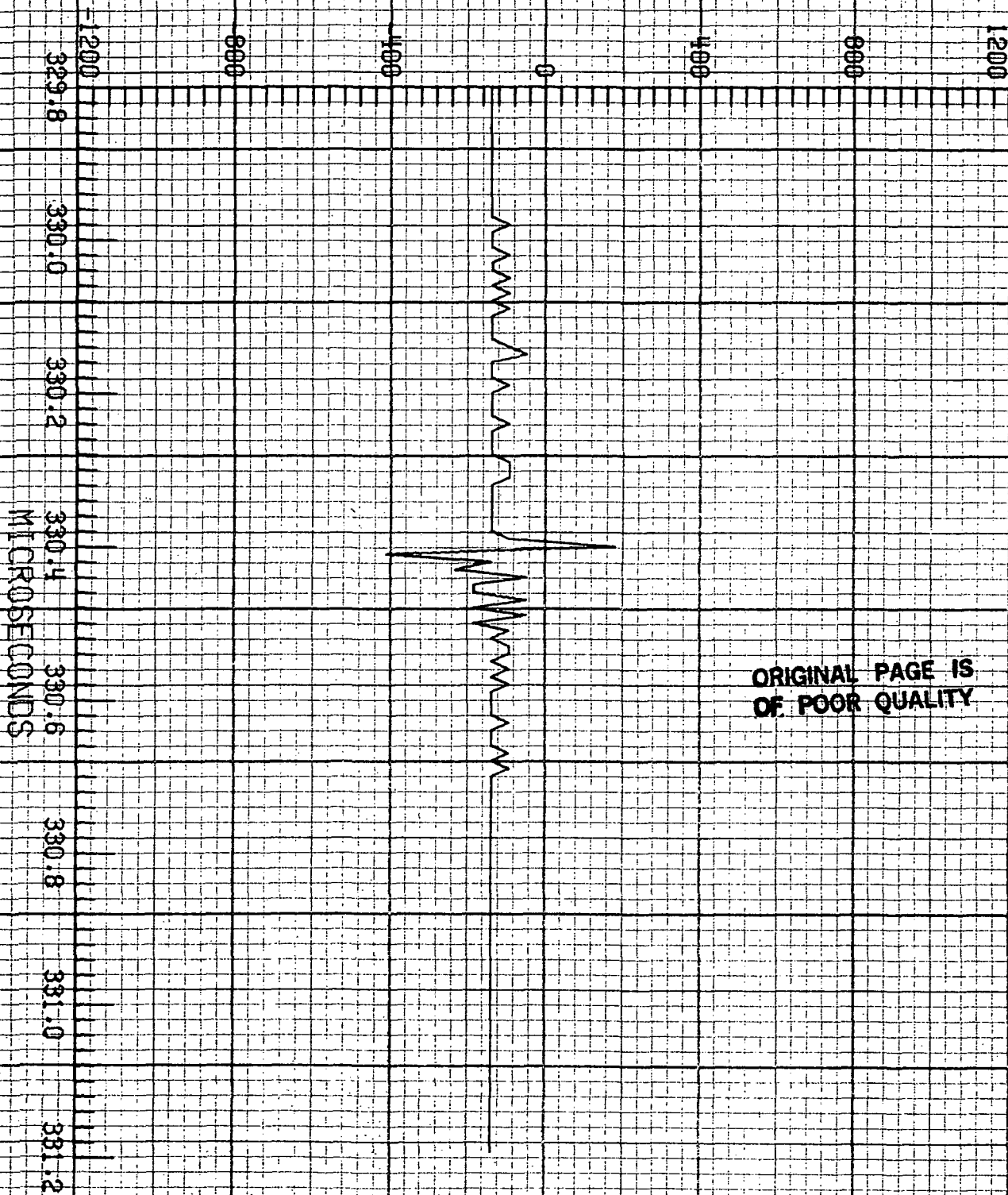
TEST NO. 83-035

RUN NO. 2

N-002

B DOT I T/S

21:47:31.0838



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F106 LIGHTNING/TK 10/M.THOMAS

TEST NO. 83-035

RUN NO. 3

S=001

B DOT L T/S

1200
600
0
-600
-1200

329.8

330.0

330.2

330.4

330.6

330.8

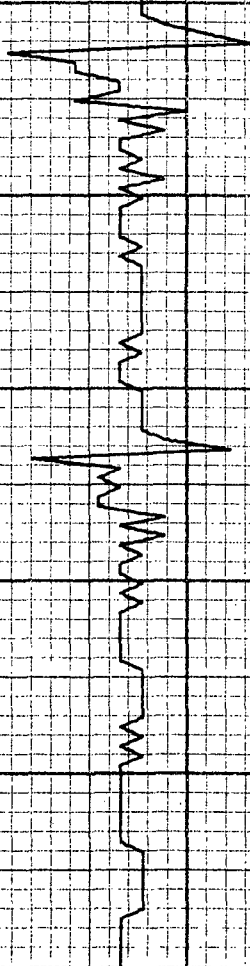
331.0

331.2

21:51:27.4653

MICROSECONDS

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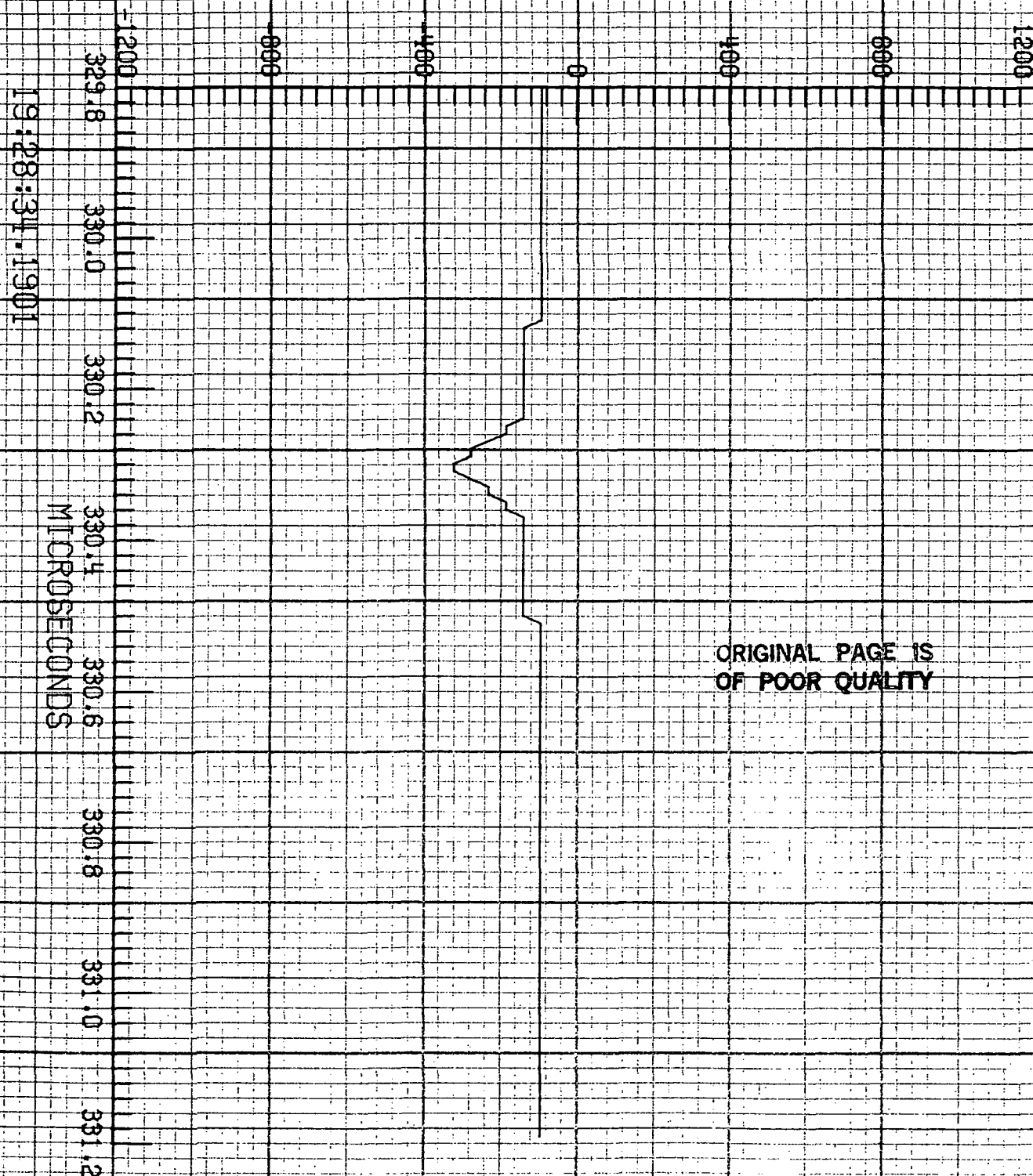
F106 LIGHTNING/TK 10/M.THOMAS

TEST NO. 83-036

RUN NO. 1

N-001

B DOT L T/S



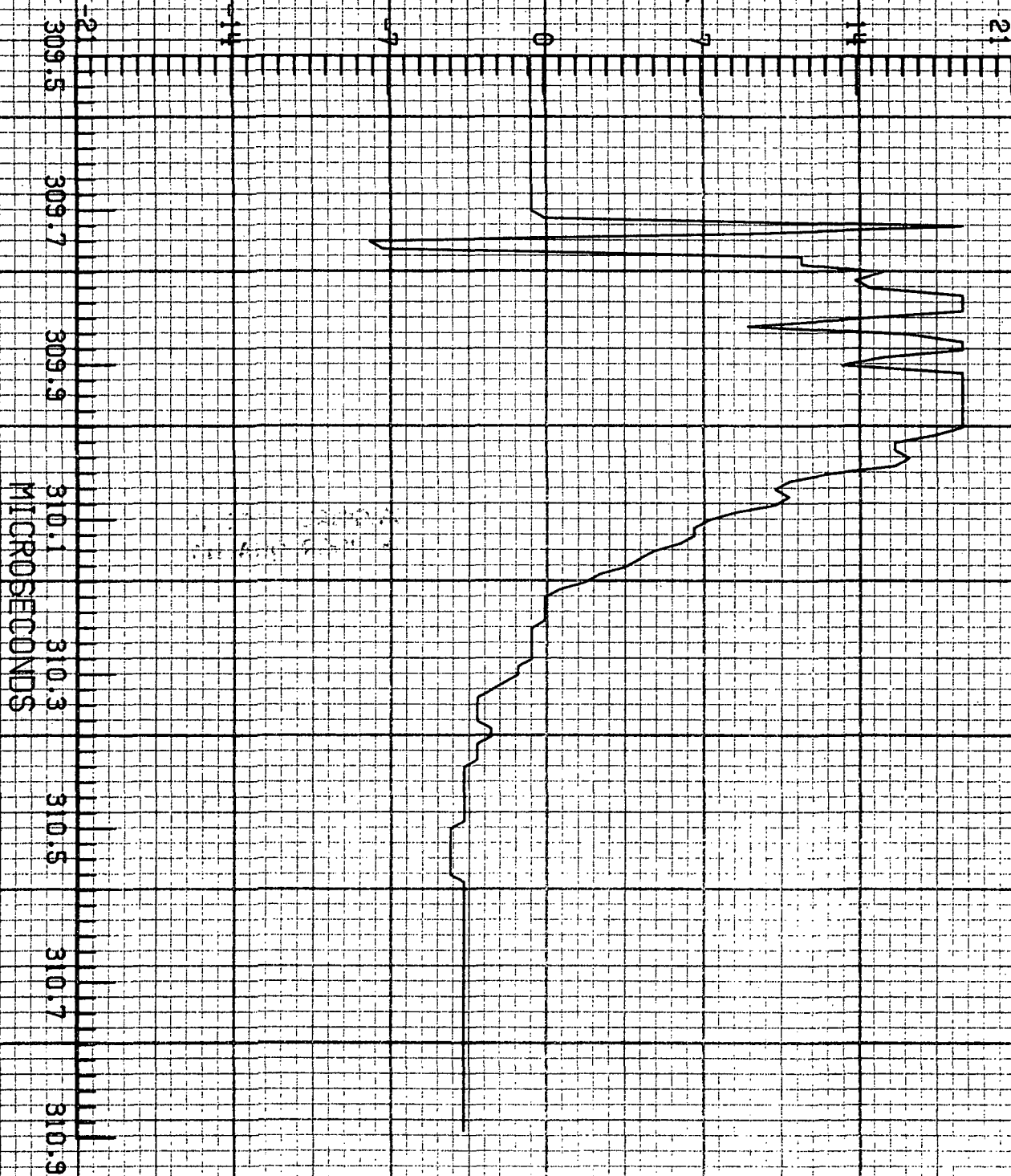
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F106 LIGHTNING/TK 8/M. THOMAS
RUN NO. 2 S-001

TEST NO. 83-036

D DOT FWD A/m^2



F106 LIGHTNING/TK 10/M.THOMAS
RUN NO. 2 S-001

TEST NO. 83-036

B DOT L T/S

1200 800 400 0 -400 -800 -1200

19:28:48.1693

330.0

330.2

330.4

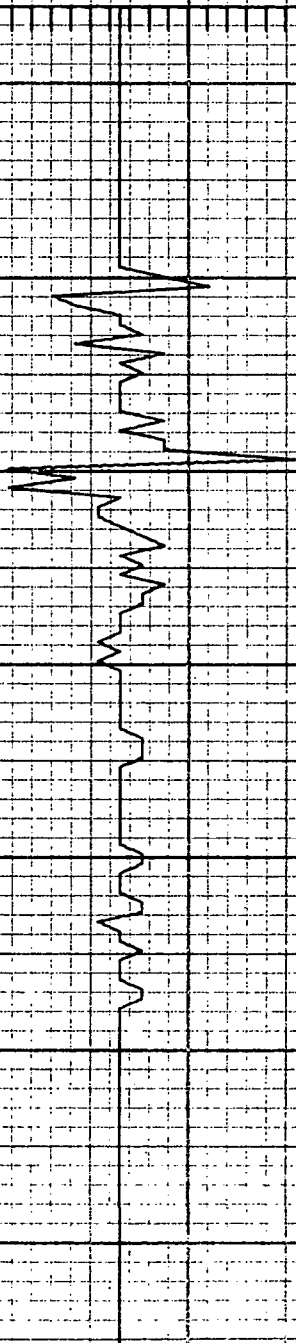
330.6
MICROSECONDS

330.8

331.0

331.2

331.4



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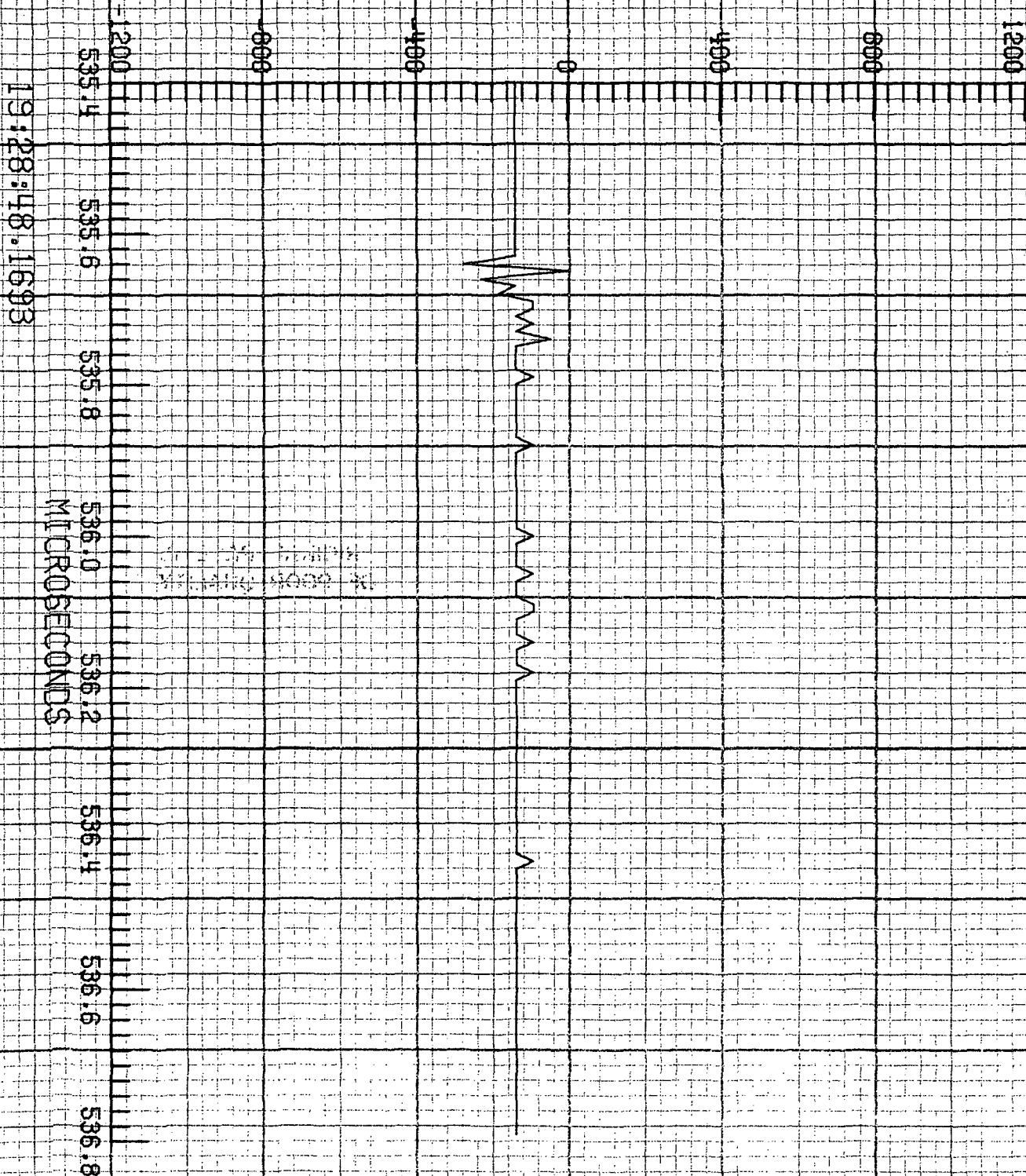
F106 LIGHTNING/TK 10/M. THOMAS

TEST NO. 83-036

RUN NO. 2

S-001

B DOT L T/S



F106 LIGHTNING/TK 10/M.THOMAS

TEST NO. 83-036

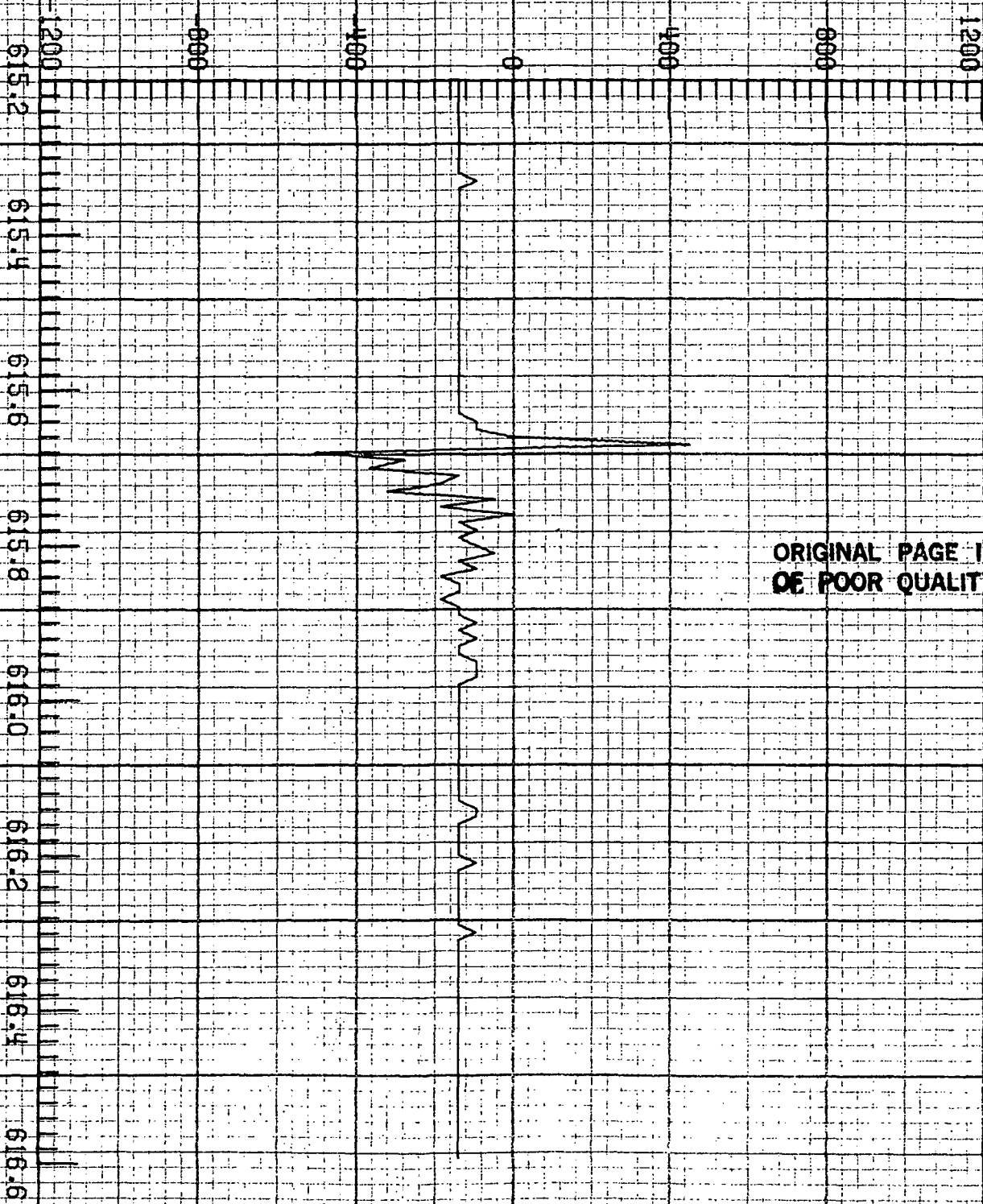
RUN NO. 2

S-001

B DOT L T/S

19:28:48.1698

MICROSECONDS



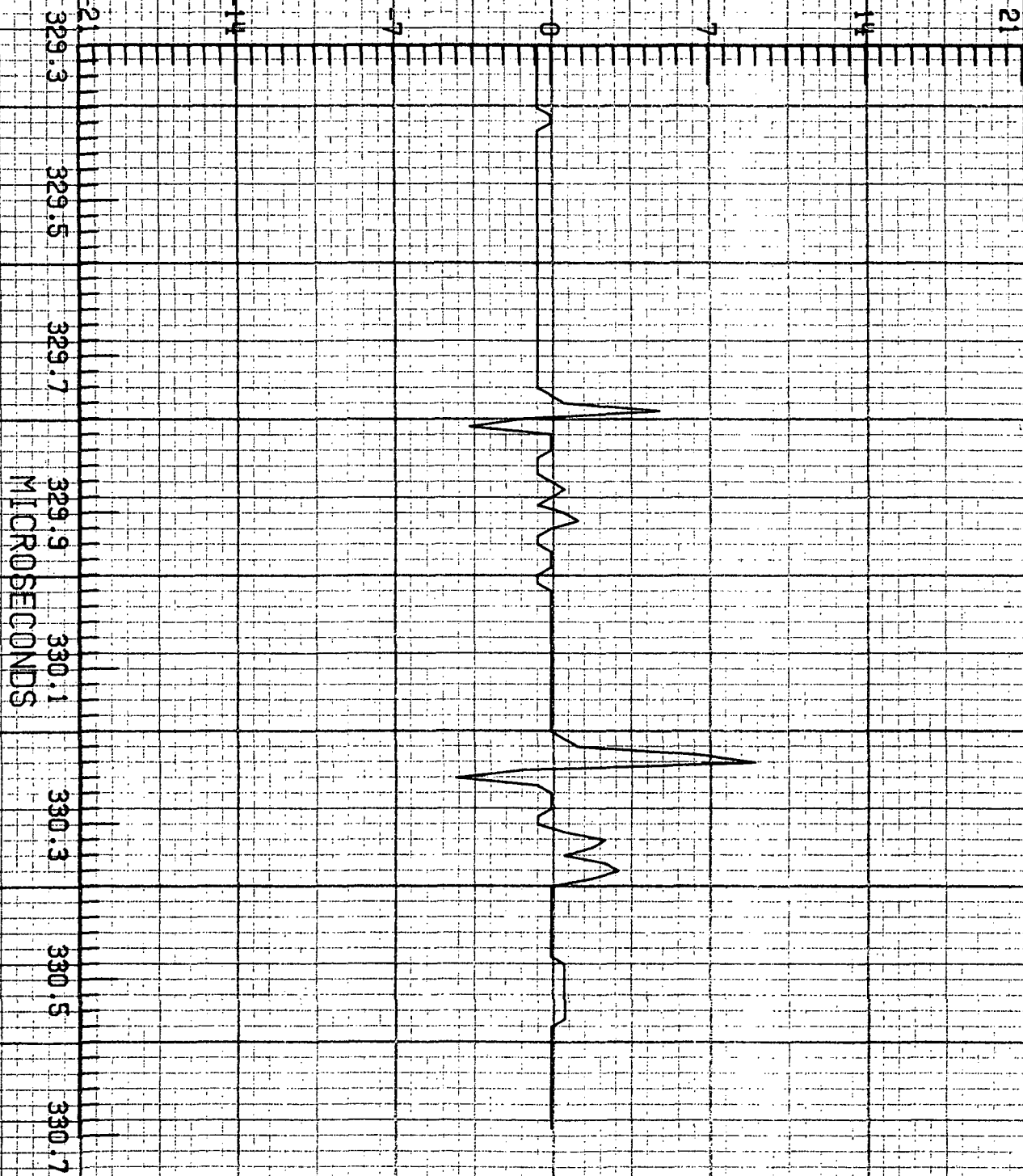
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F106 LIGHTNING/TK 8/M.THOMAS
RUN NO. 3 S-002

TEST NO. 83-036

D DOT FWD A/m^2



F106 LIGHTNING/TK 10/M.THOMAS

TEST NO. 83-036

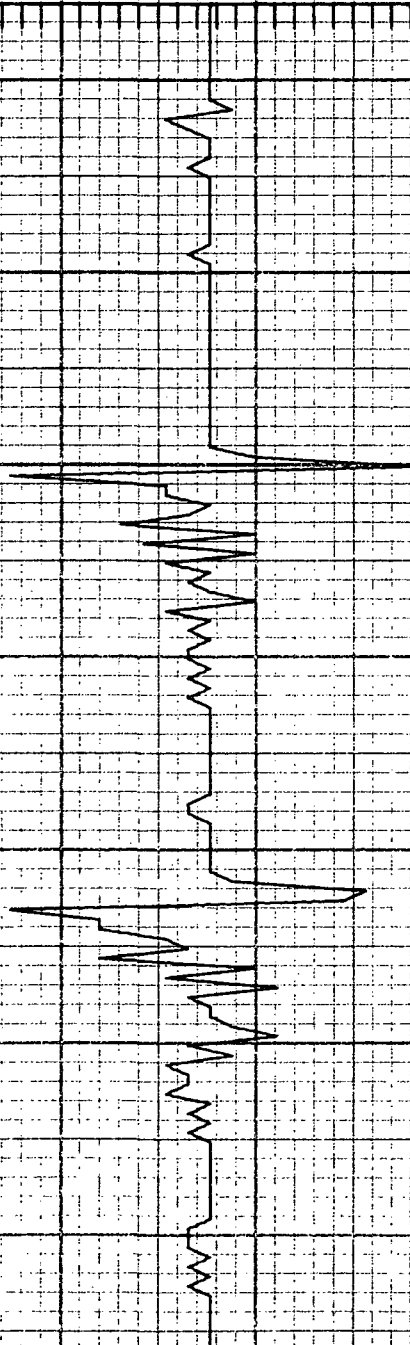
RUN NO. 3

S-002

B DOT U T/S

-1200
-600
-400
0
400
600
1200

19:30:36.0888
329.7
329.9
330.1
330.3
330.5
330.7
330.9
331.1
MICROSECONDS



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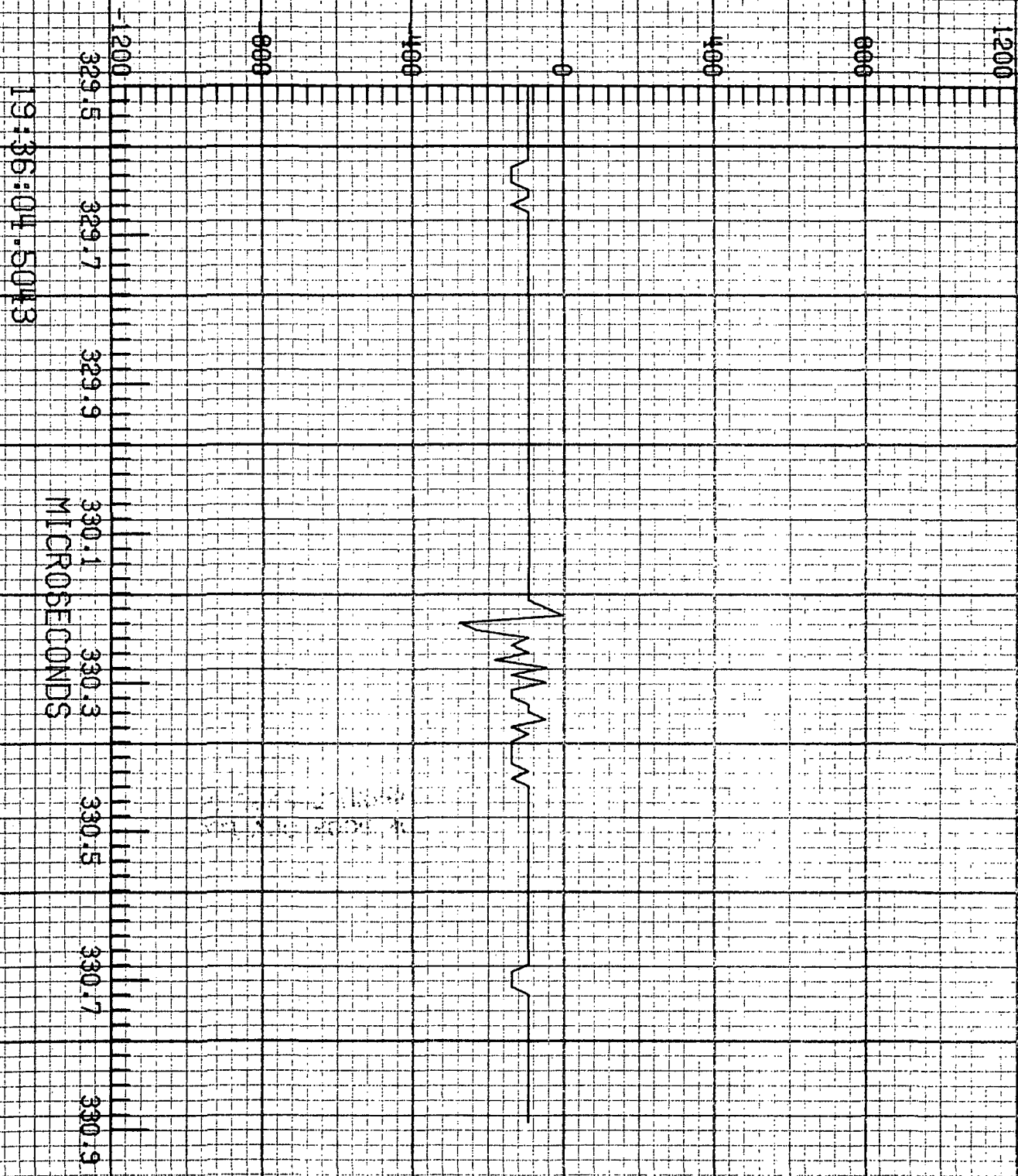
F106 LIGHTNING/TK 10/M.THOMAS

TEST NO. 83-036

RUN NO. 1

S-003

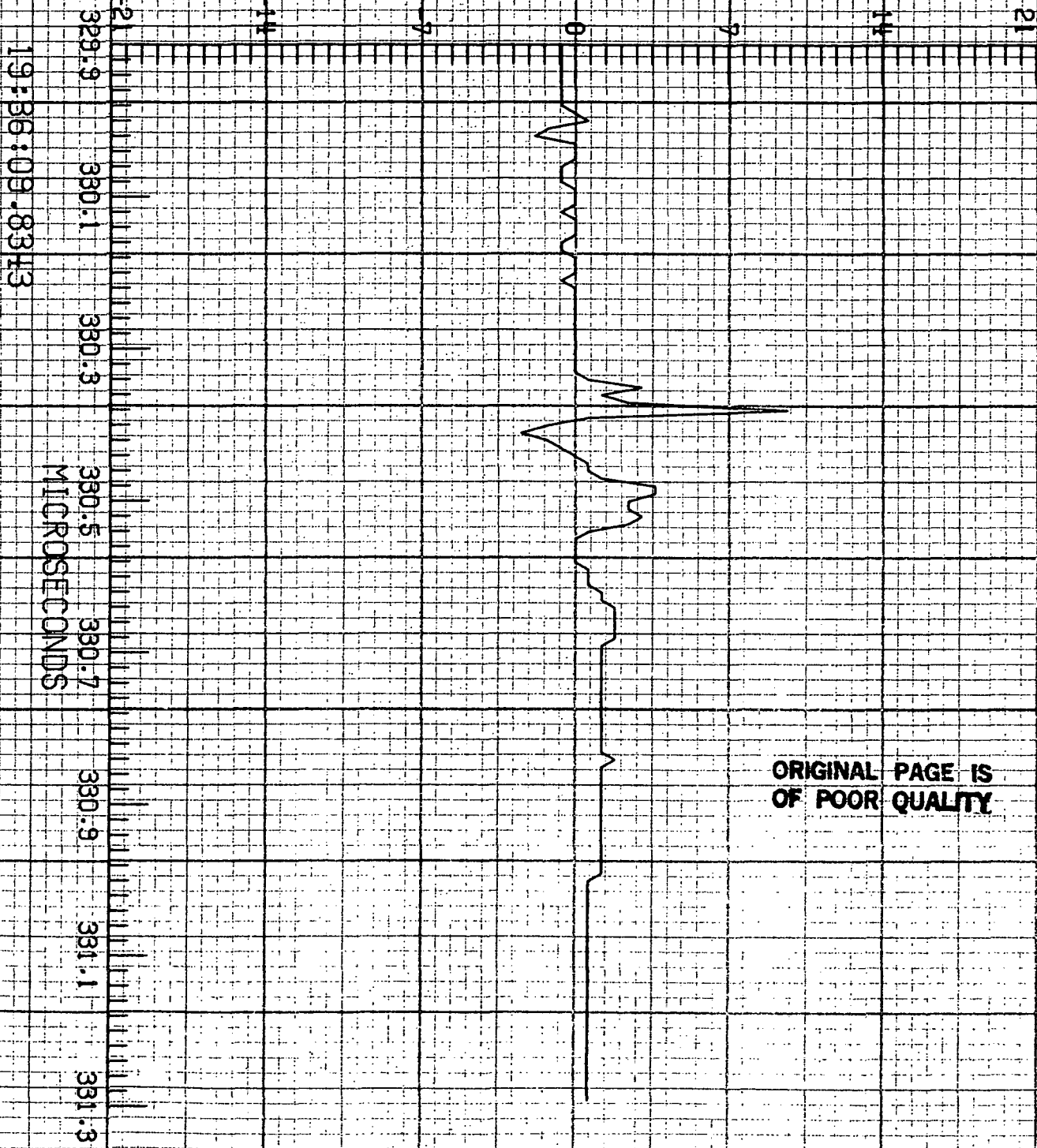
B DOT L T/S



F106 LIGHTNING/TK 8/M.THOMAS
RUN NO. 5 N-002

TEST NO. 83-036

D DOT FWD A/m^2

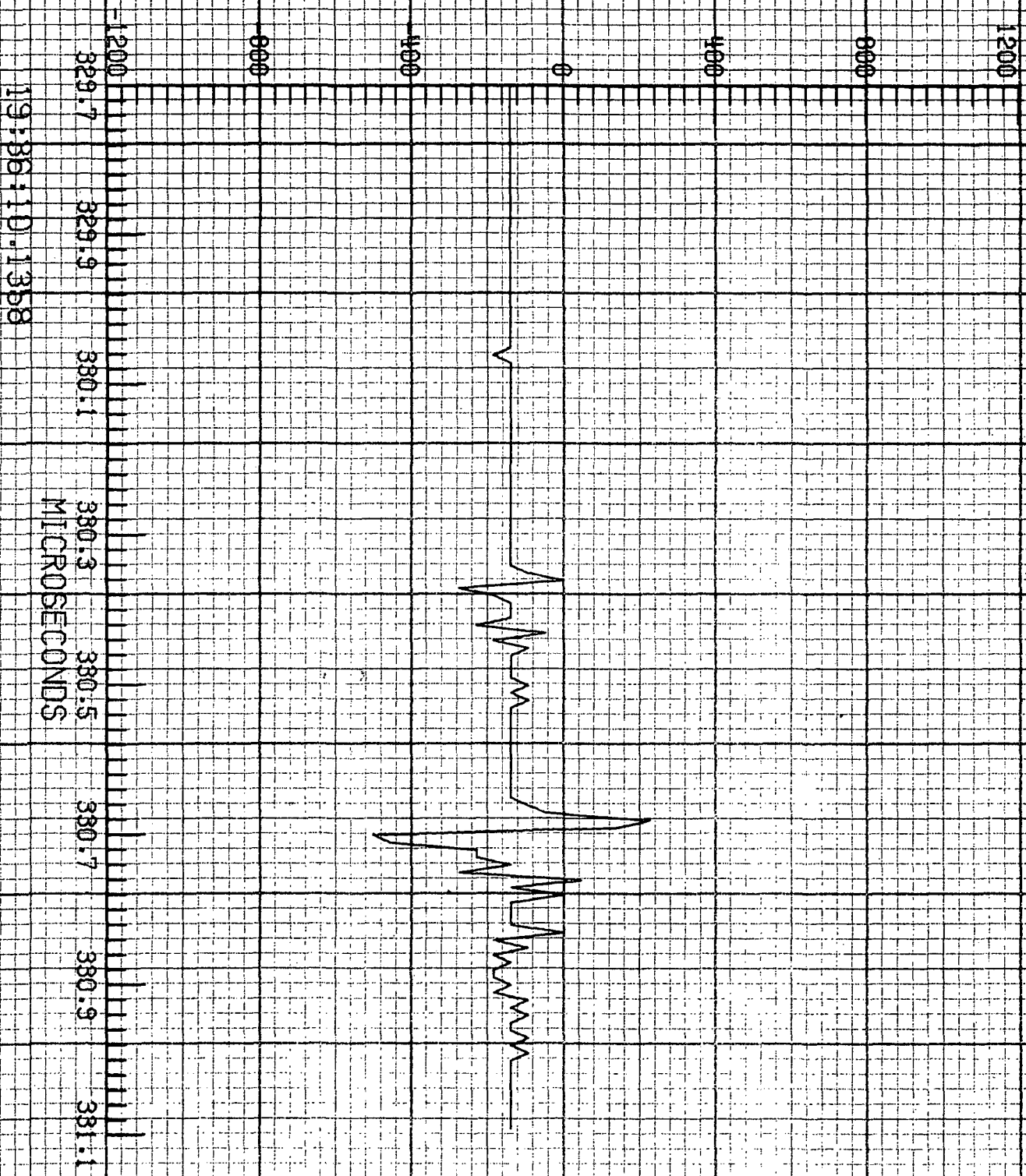


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RUN NO. 5 N-002

TEST NO. 83-036

B DOT L T/S



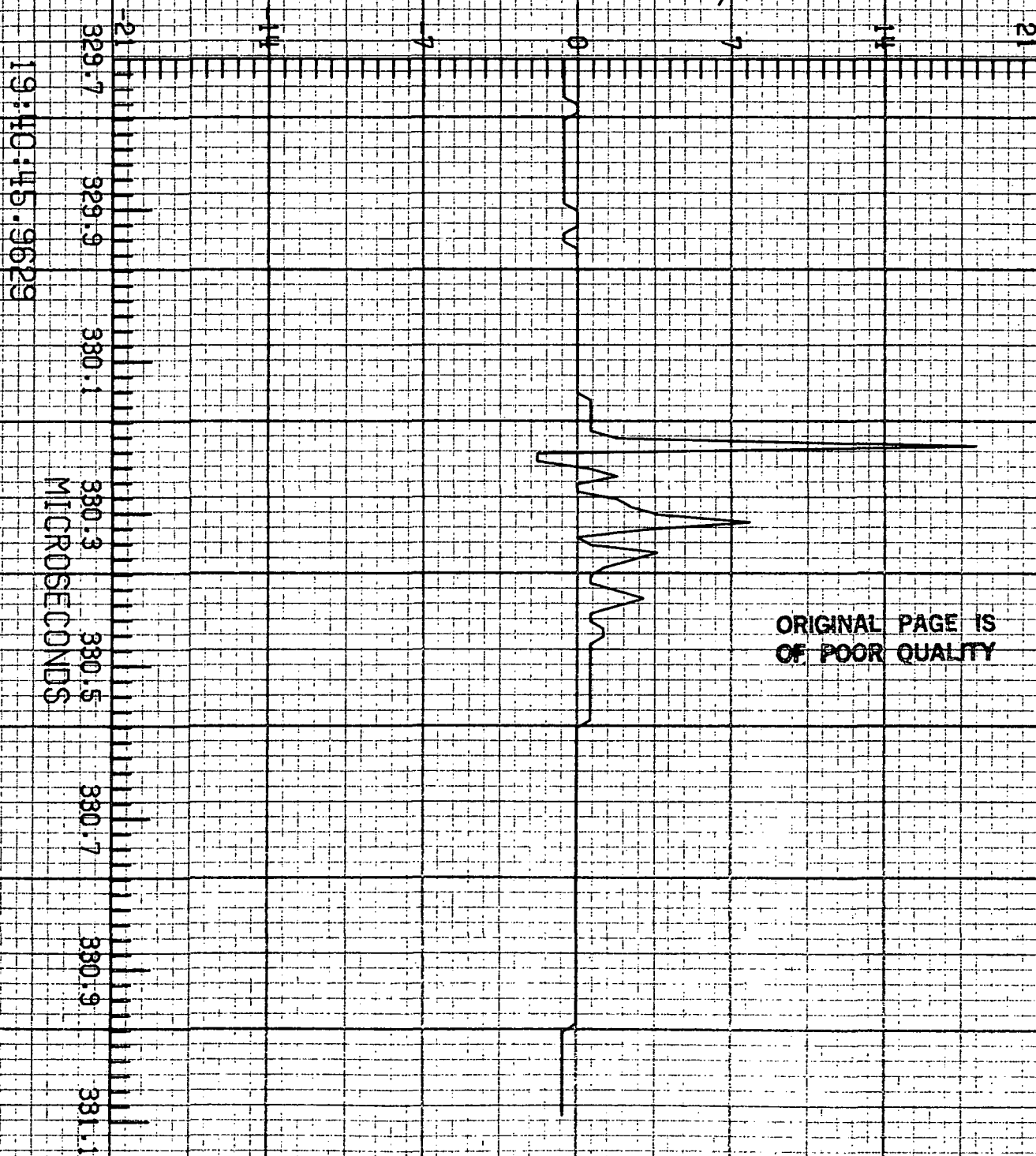
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TEST NO. 83-036

RUN NO. 6

N-003

D DOT FWD A/m^2

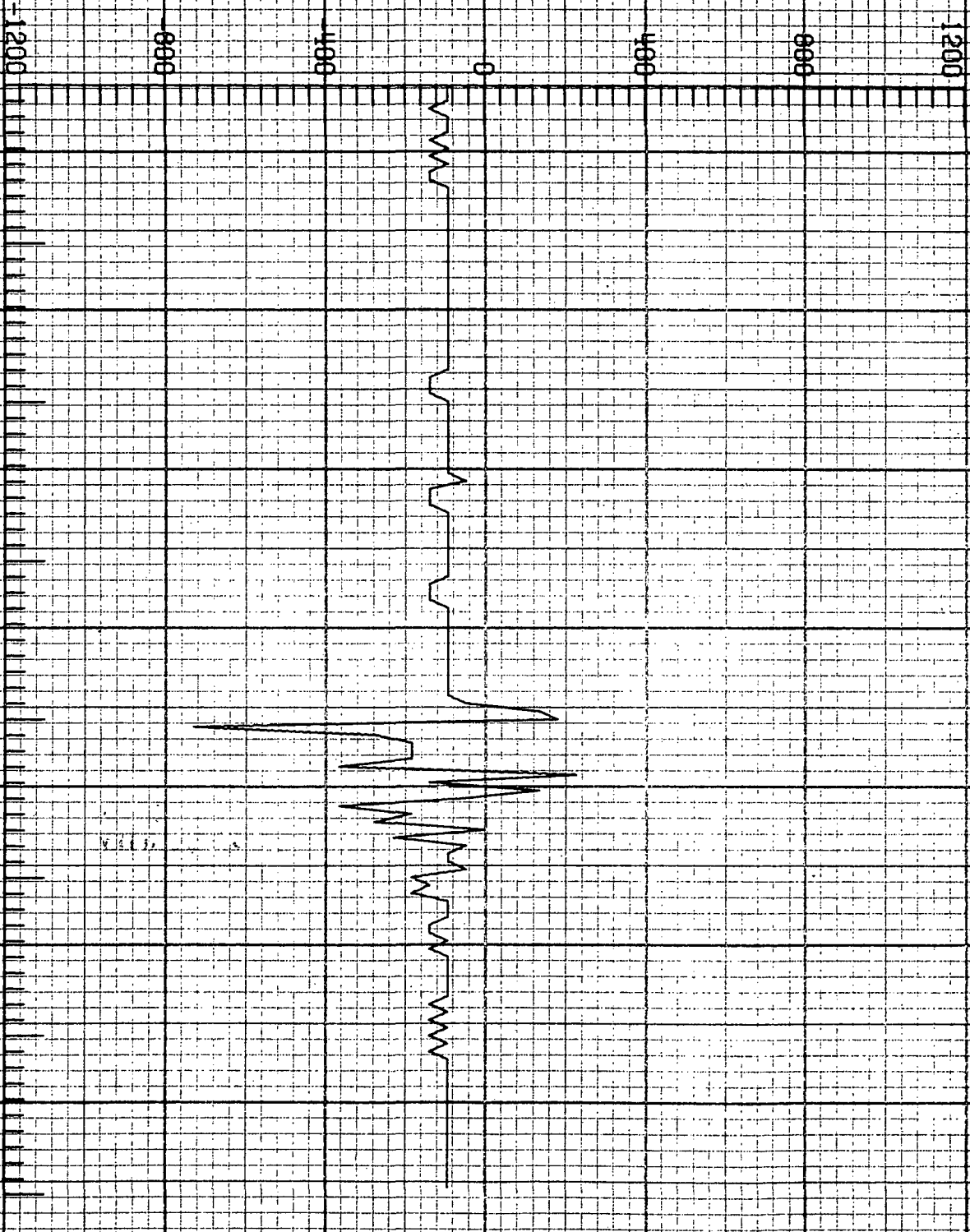


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RUN NO. 5 N-003

TEST NO. 83-036

B DOT L T/S



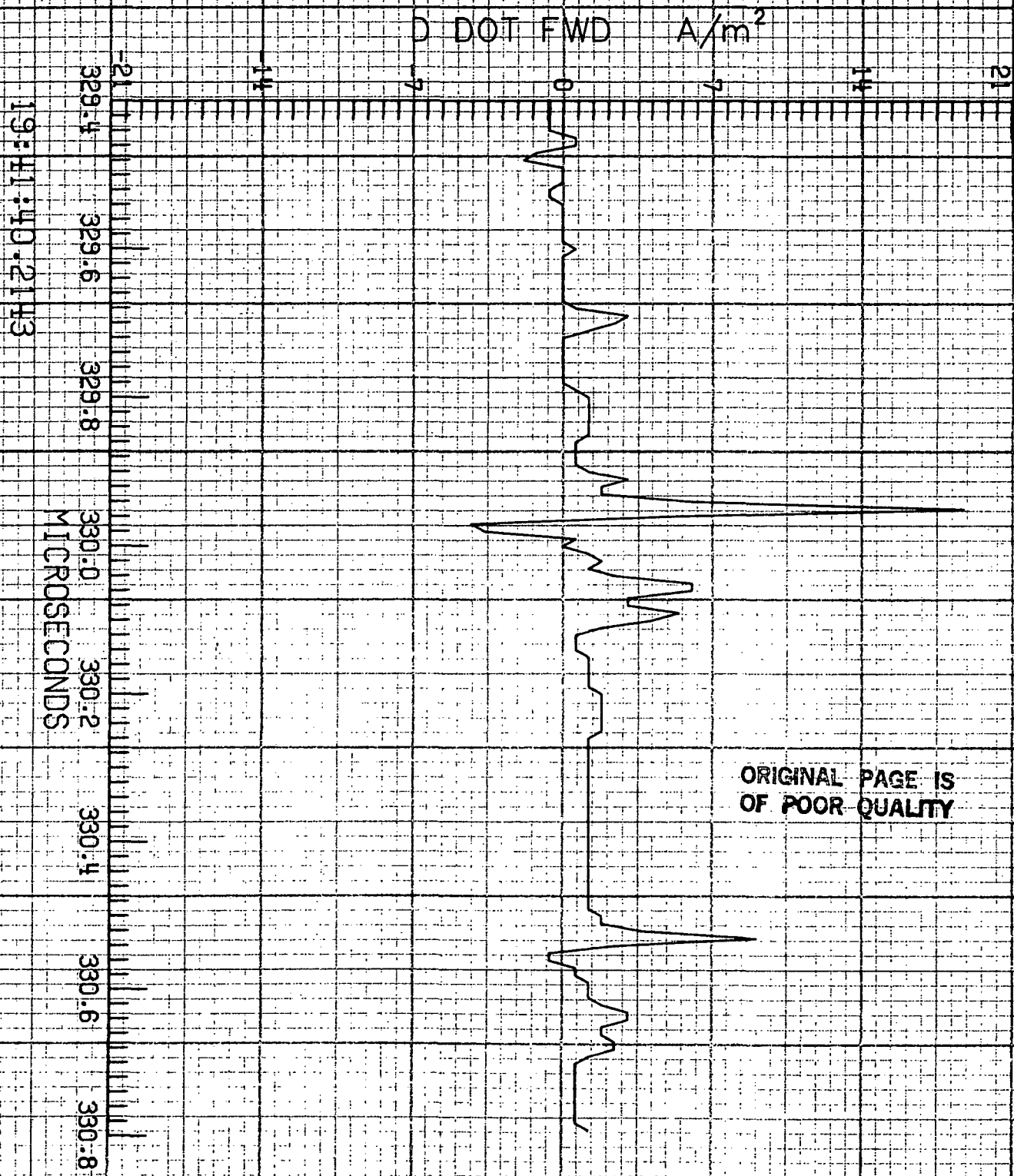
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MICROSECONDS

F106 LIGHTNING/TK 8/M.THOMAS
RUN NO. 7

N-004

TEST NO. 83-036



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F106 LIGHTNING/TK 10/M.THOMAS

TEST NO. 83-036

RUN NO. 7

N=004

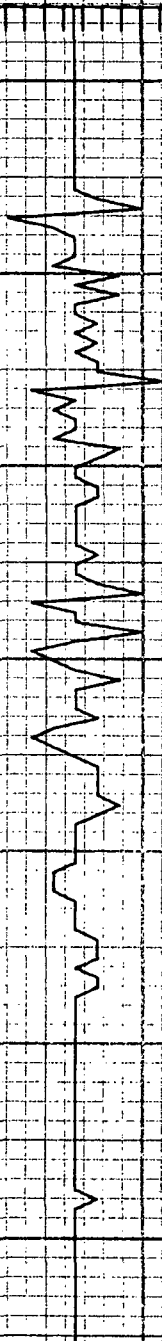
B DOT L T/S

1200
600
0
600
1200

19:41:40.166H

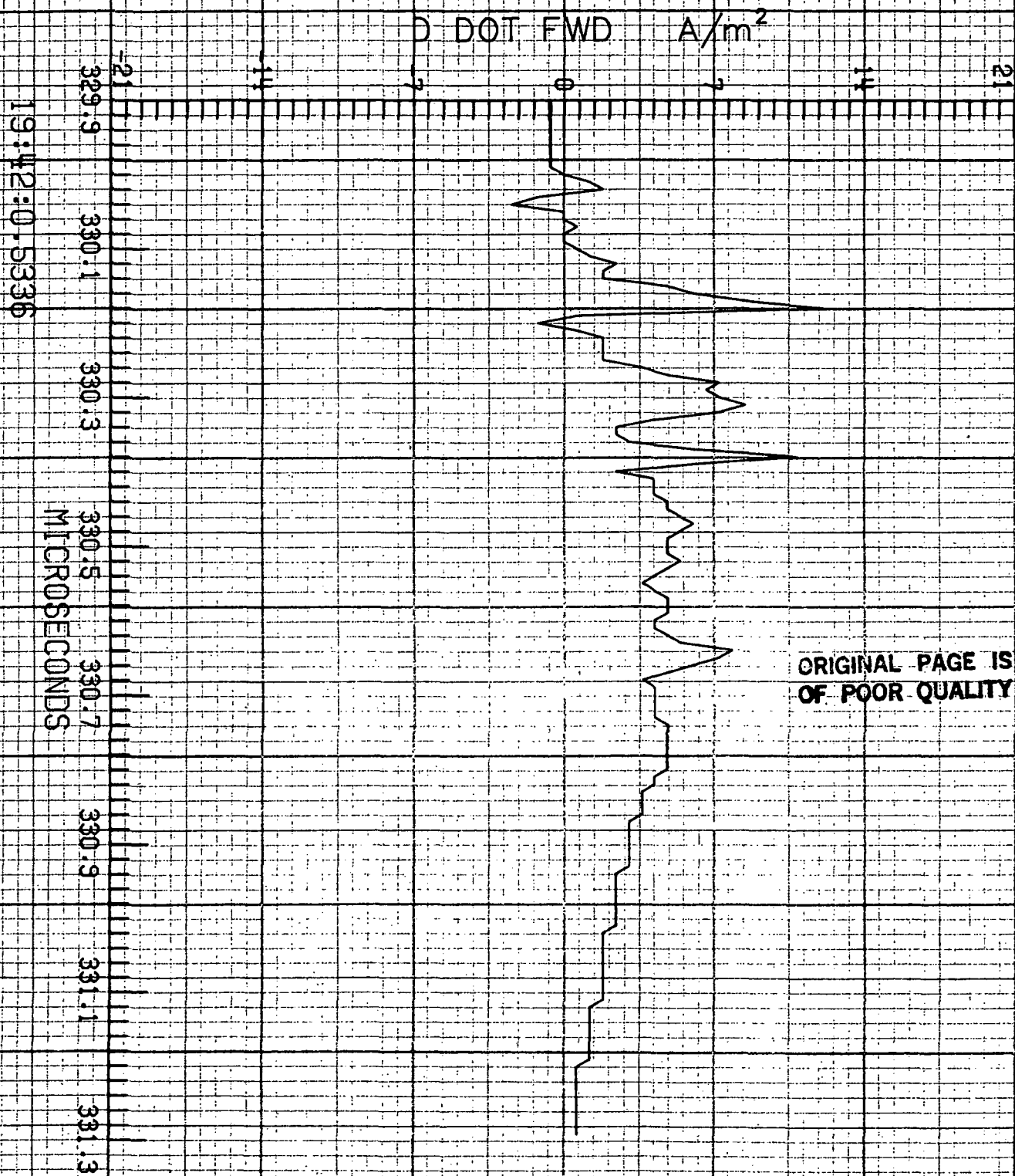
MICROSECONDS

380.0
380.2
380.4
380.6
380.8
381.0
381.2
381.4



F106 LIGHTNING/TK 8/M.THOMAS
RUN NO. 8 N-005

TEST NO. 83-036



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F106 LIGHTNING/TK 10/M. THOMAS

TEST NO. 83-036

RUN NO. 8

N-005

B DOT L T/S

1200 800 400 0 400 800 1200

19:42:0.4934

MICROSECONDS

329.9

330.1

330.3

330.5

330.7

330.9

331.1

331.3

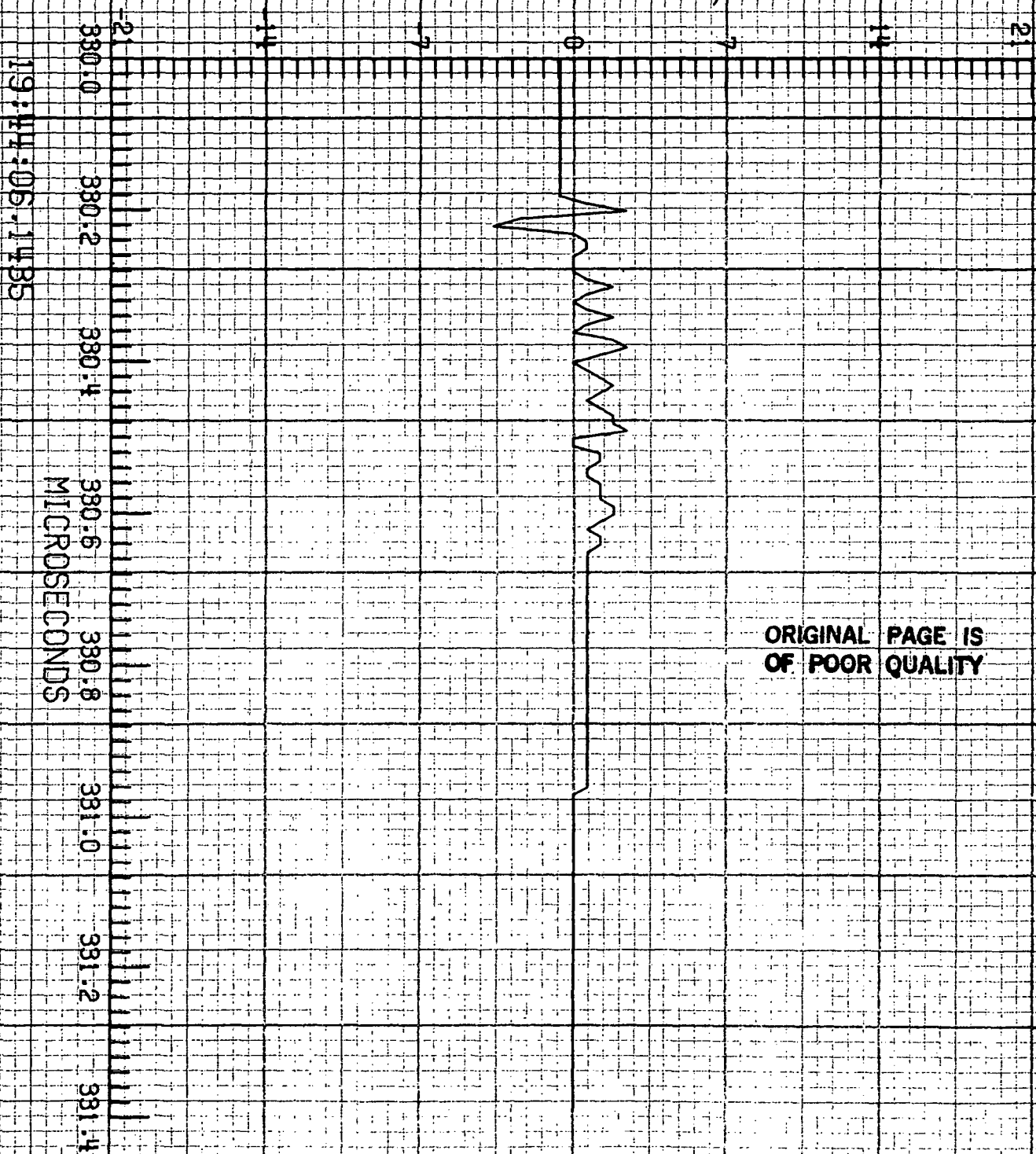
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TEST NO. 83-036

RUN NO. 9

N-006

DOT FWD A/m^2



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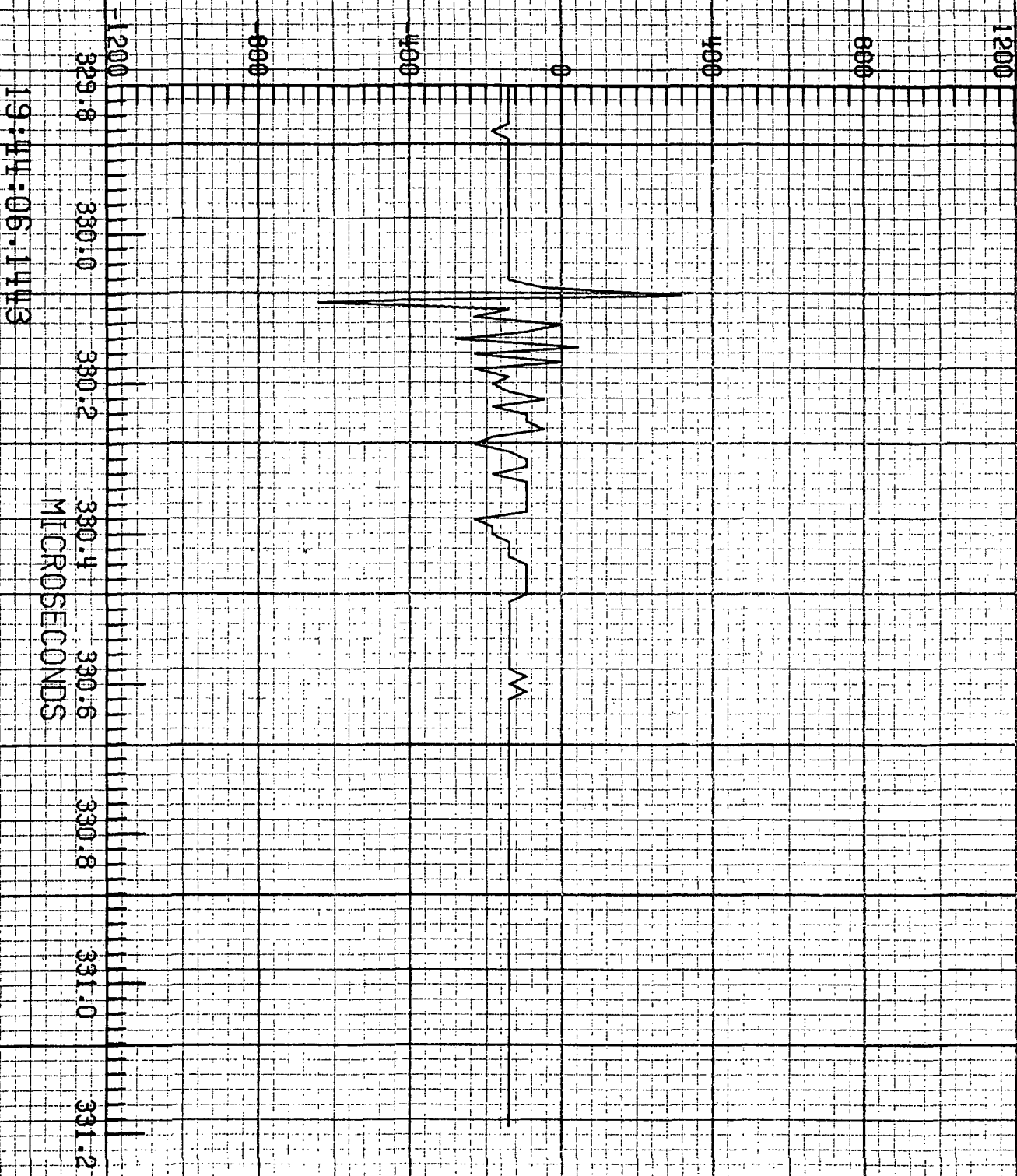
F106 LIGHTNING/TK 10/M.THOMAS

TEST NO. 83-036

RUN NO. 9

N-006

B DOT L T/S



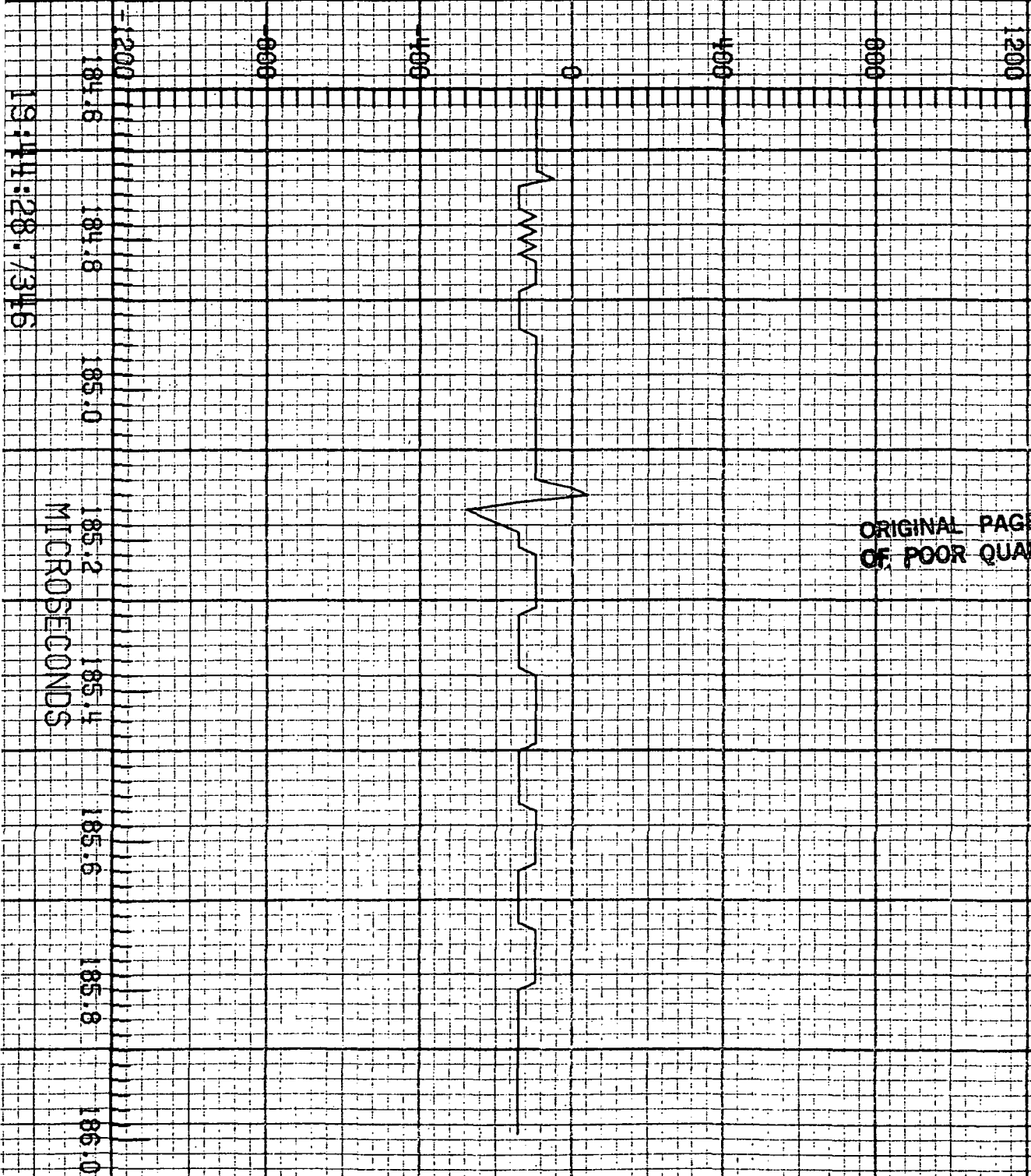
F106 LIGHTNING/TK 10/M.THOMAS

TEST NO. 83-036

RUN NO. 10

N-007

B DOT L T/S



19:44:28.7345

MICROSECONDS

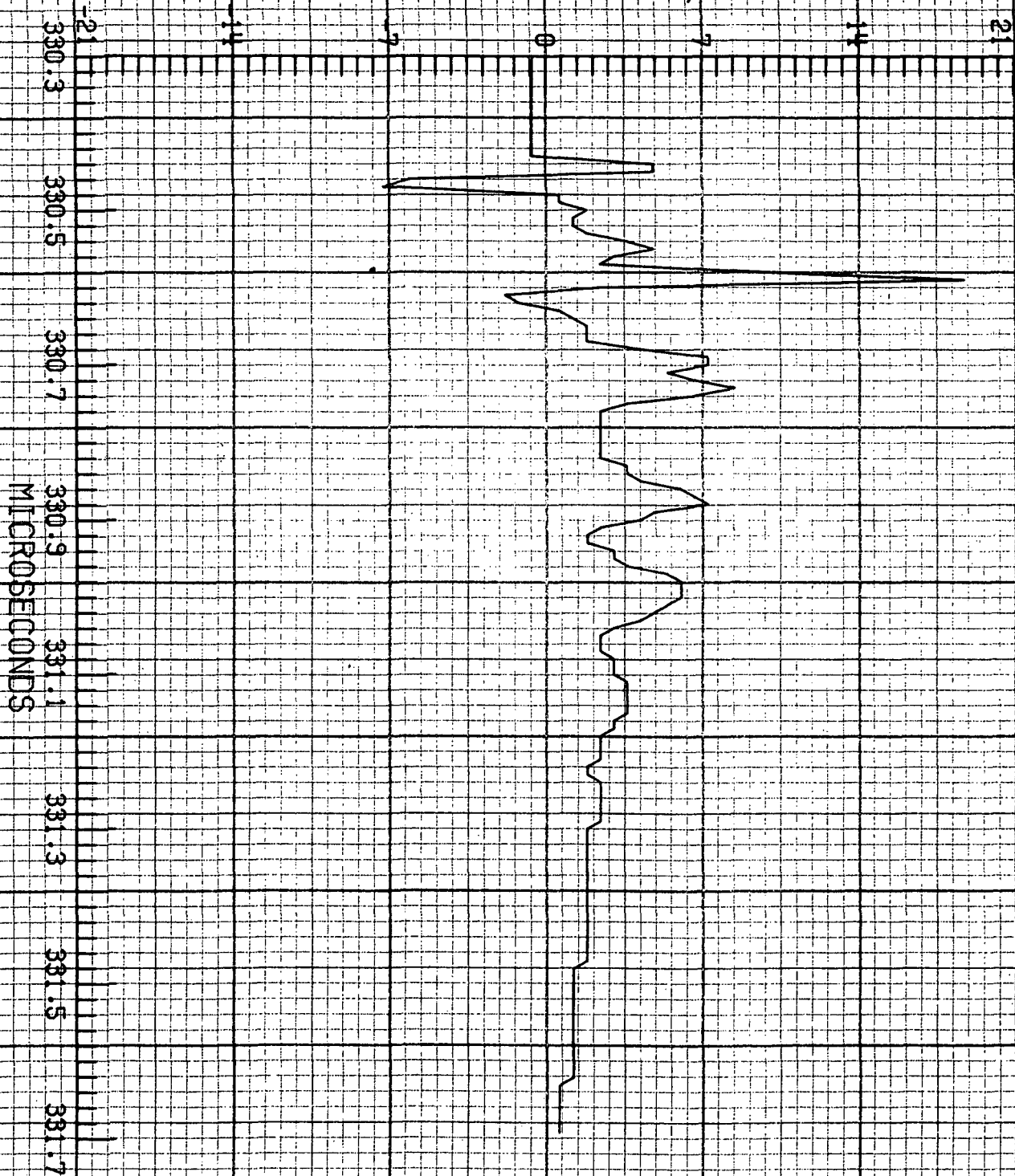
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F106 LIGHTNING/TK 8/M.THOMAS
RUN NO. 10 N-007

TEST NO. 83-036

D DOT FWD A/m^2



F106 LIGHTNING/TK 10/M.THOMAS

TEST NO. 83-036

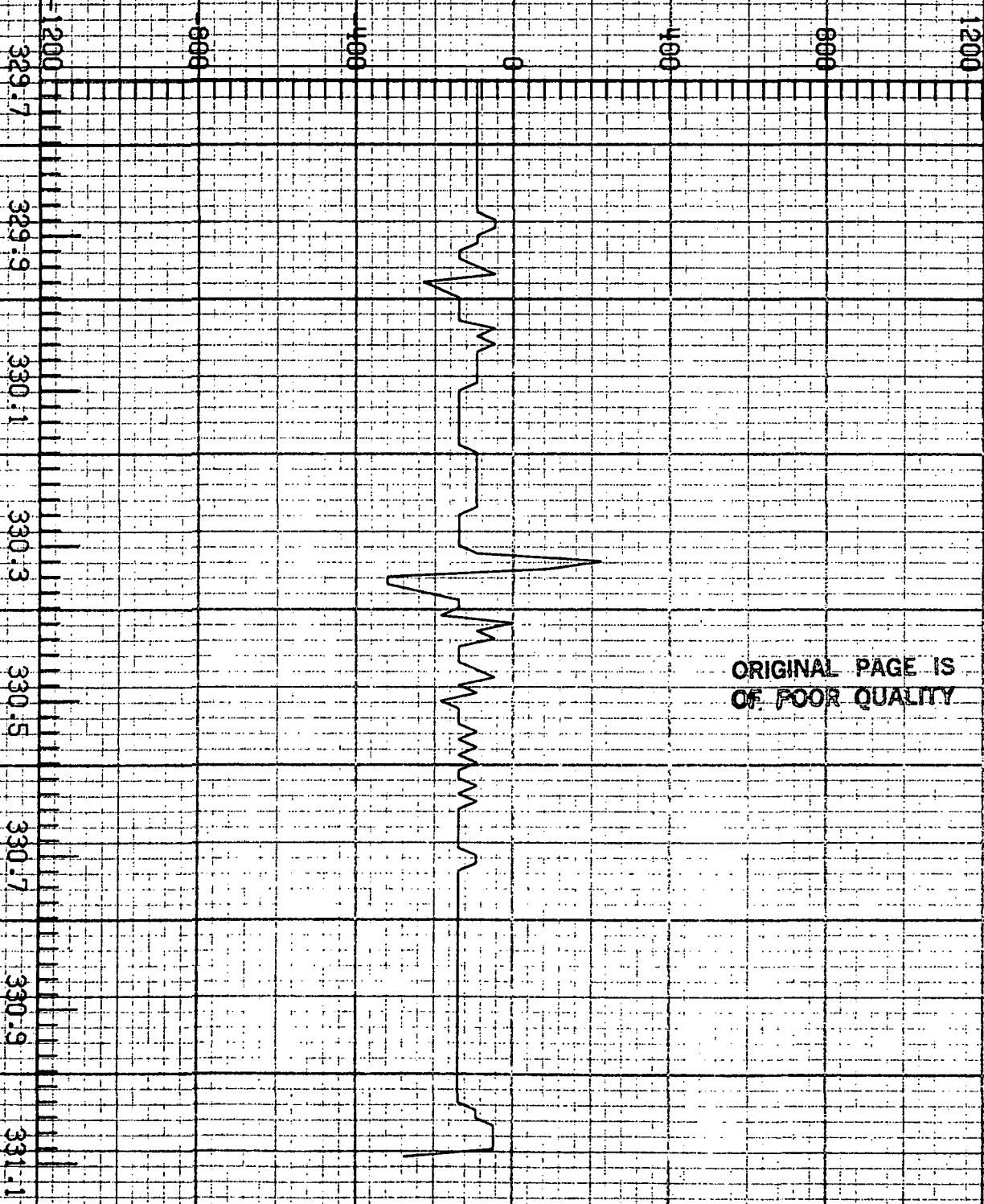
RUN NO. 10

N-007

B DOT L T/S

19:44:28.7346

MICROSECONDS



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F106 LIGHTNING/TK 10/M. THOMAS

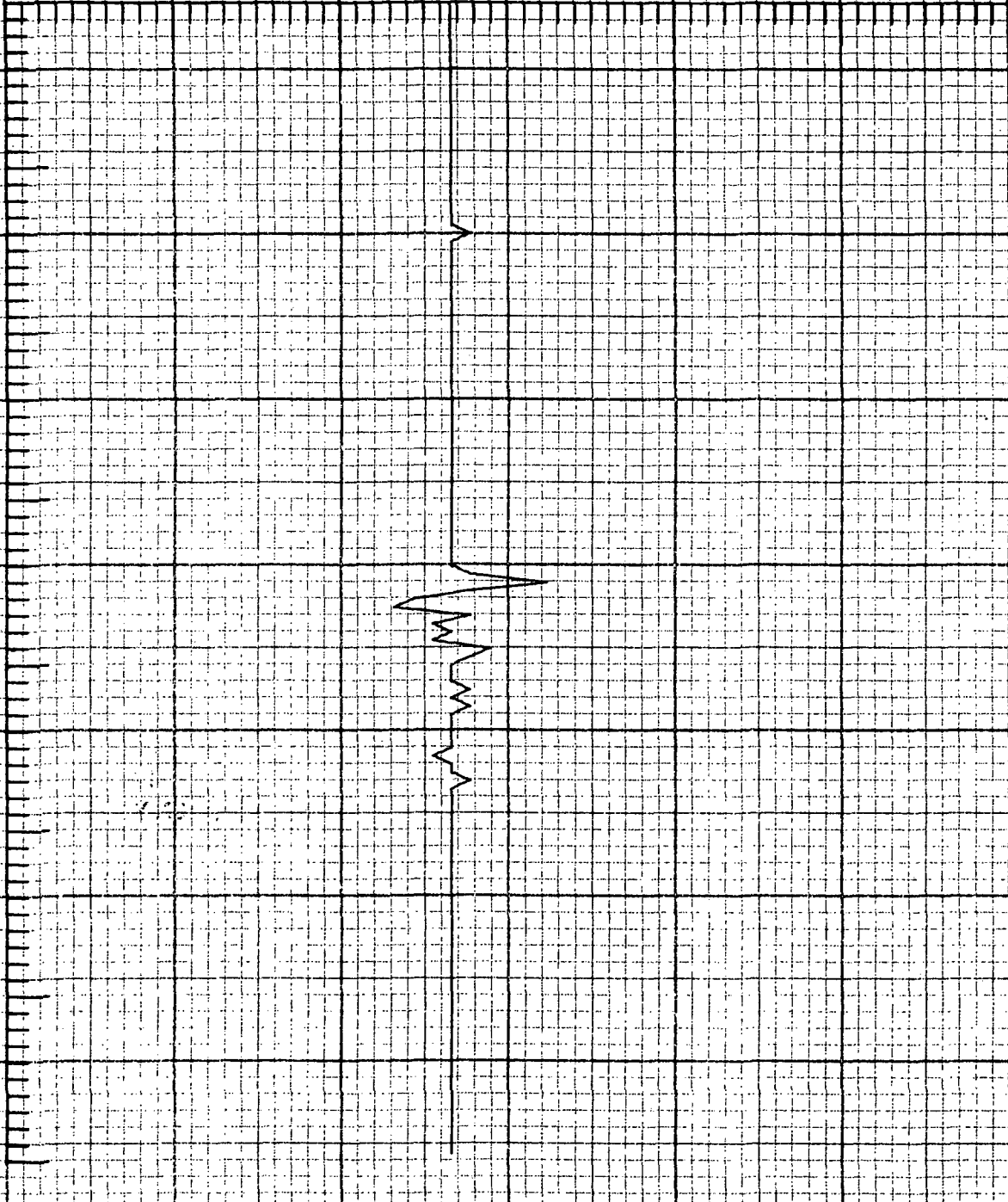
TEST NO. 83-036

RUN NO. 11

N-008

B DOT L T/S

1200
800
400
0
-400
-800
-1200



19:46:56.3696

MICROSECONDS

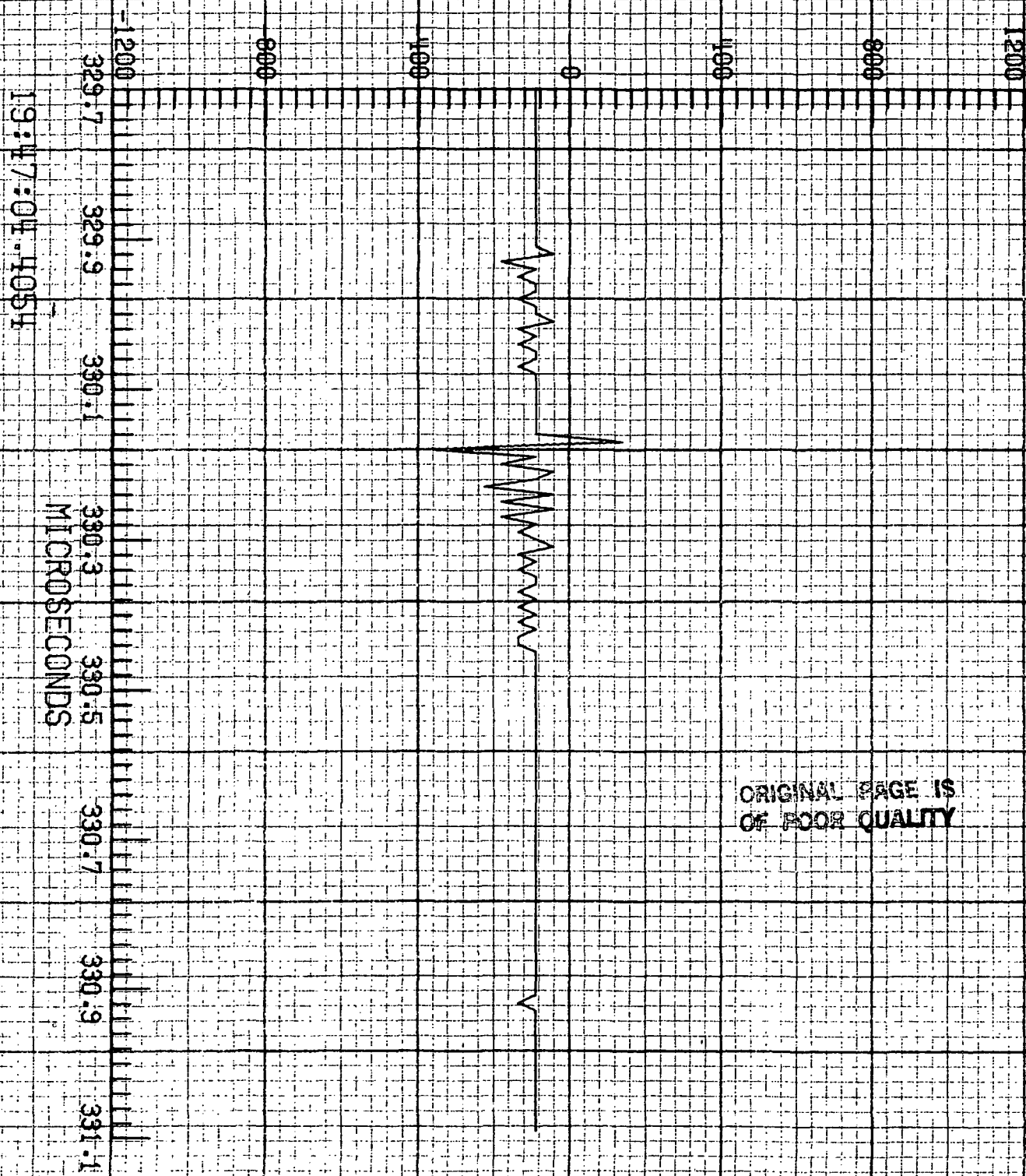
F106 LIGHTNING/TK 10/M. THOMAS

TEST NO. 83-036

RUN NO. 12

S-006

B DOT U T/S



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F106 LIGHTNING/TK 10/M. THOMAS

TEST NO. 83-036

RUN NO. 13

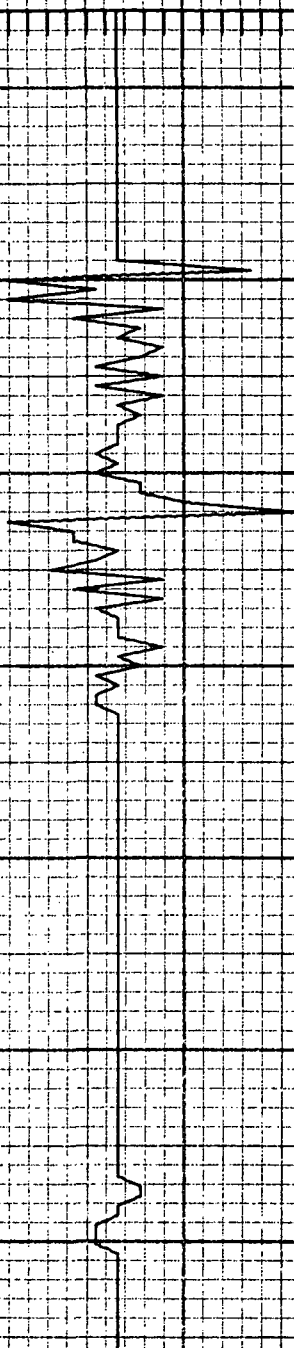
S-008

B DOT I T/S

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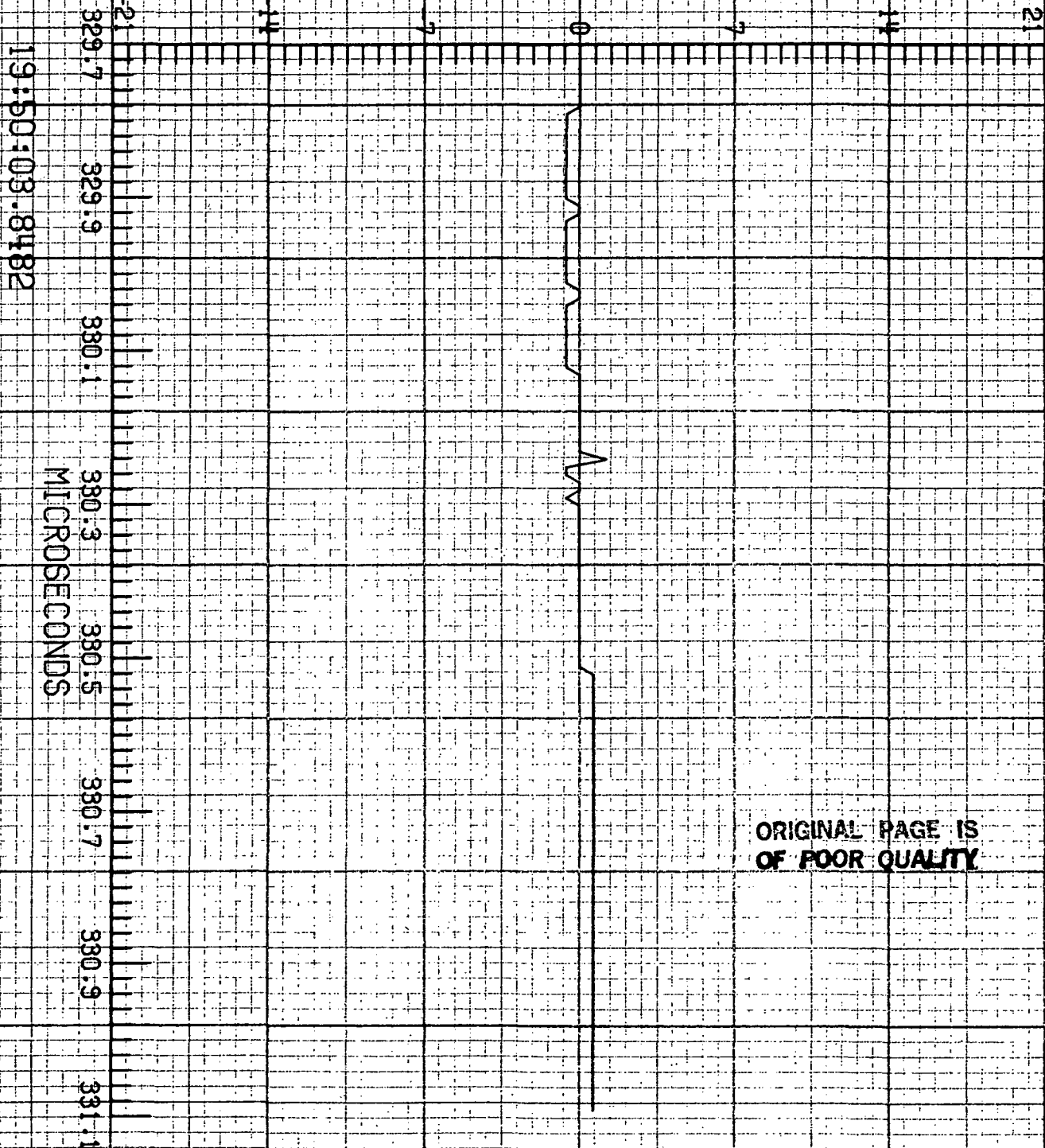
329.9
330.1
330.3
330.5
330.7
330.9
331.1
331.3
MICROSECONDS



-106 LIGHTNING/TK 8/M.THOMAS
RUN NO. 14 N-009

TEST NO. 83-036

D DOT FWD A/m^2



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RUN NO. 14 N-009

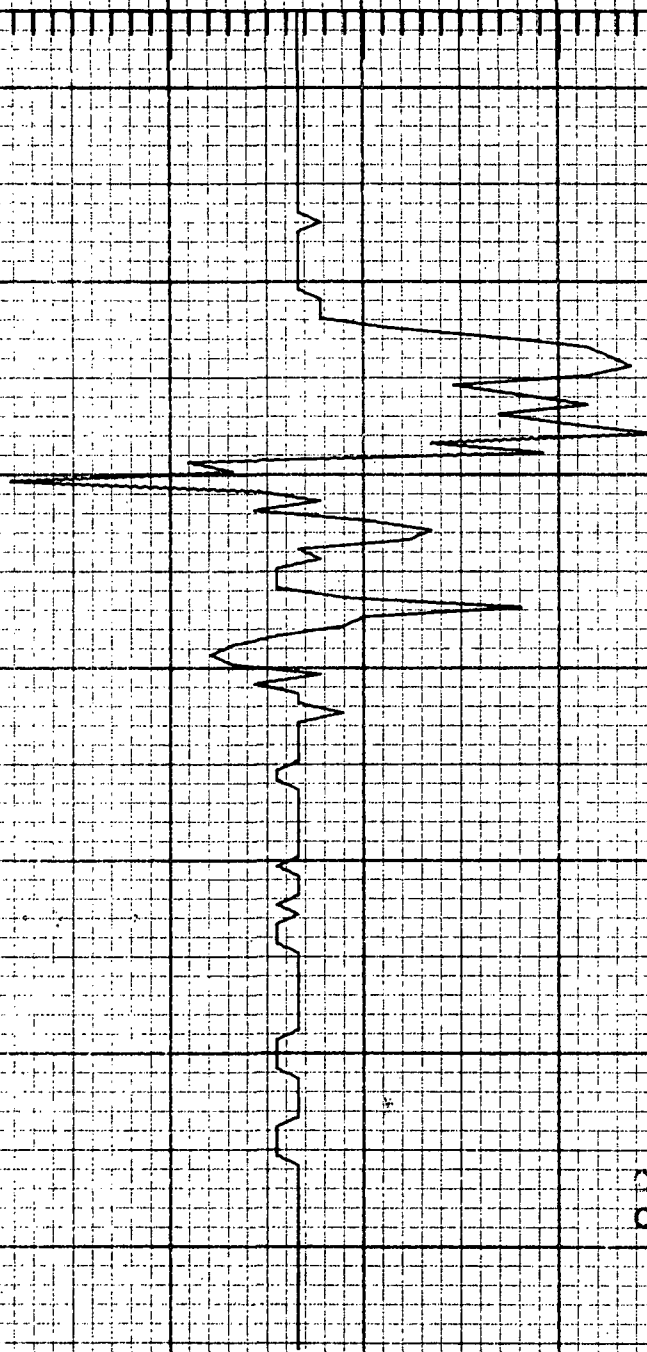
TEST NO. 83-036

B DOT II T/S

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19:50:03.8614

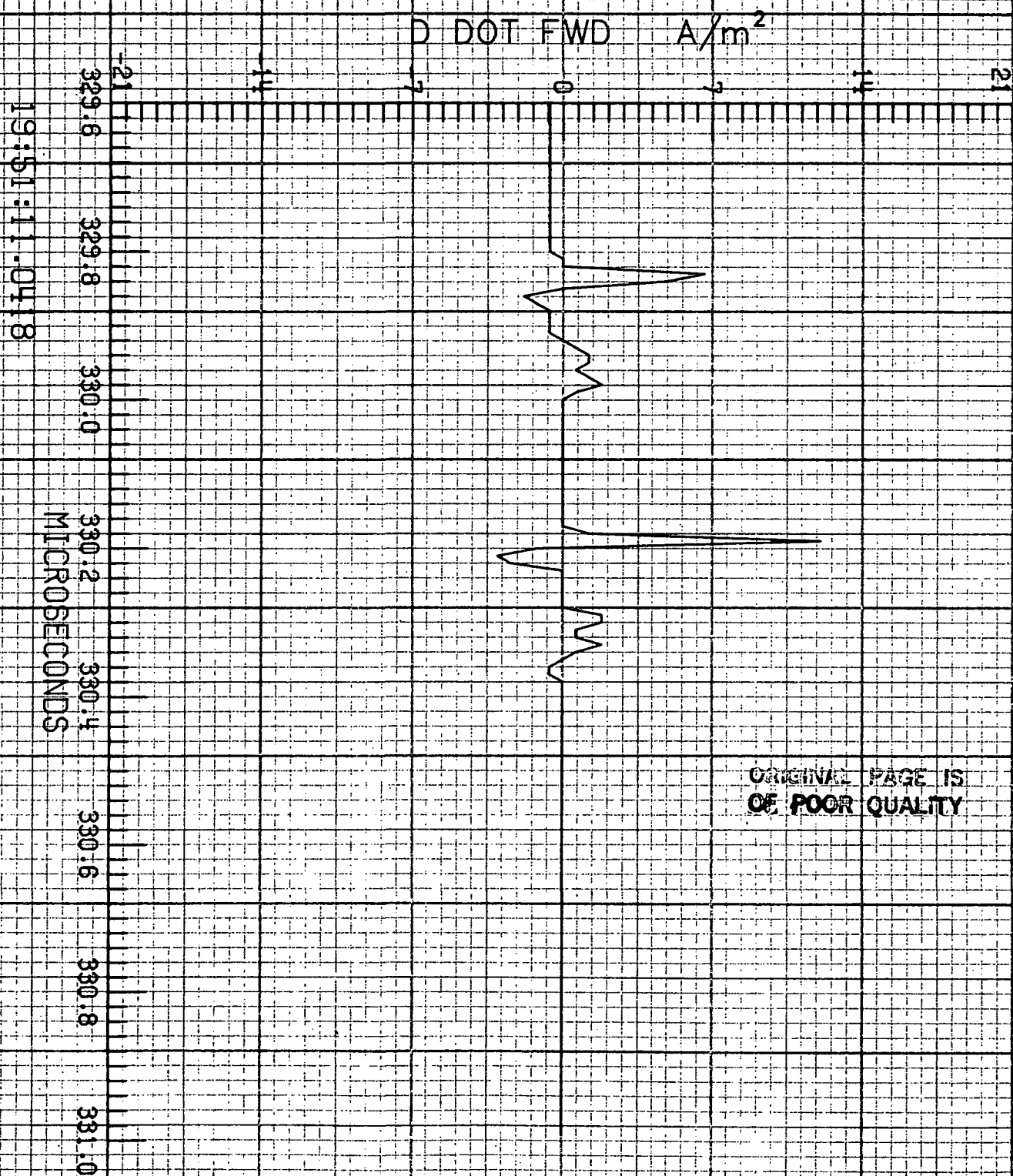
329.9
330.1
330.3
330.5
330.7
330.9
331.1
331.3
MICROSECONDS



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F106 LIGHTNING/TK 8/M. THOMAS
RUN NO. 15 N-010

TEST NO. 83-036



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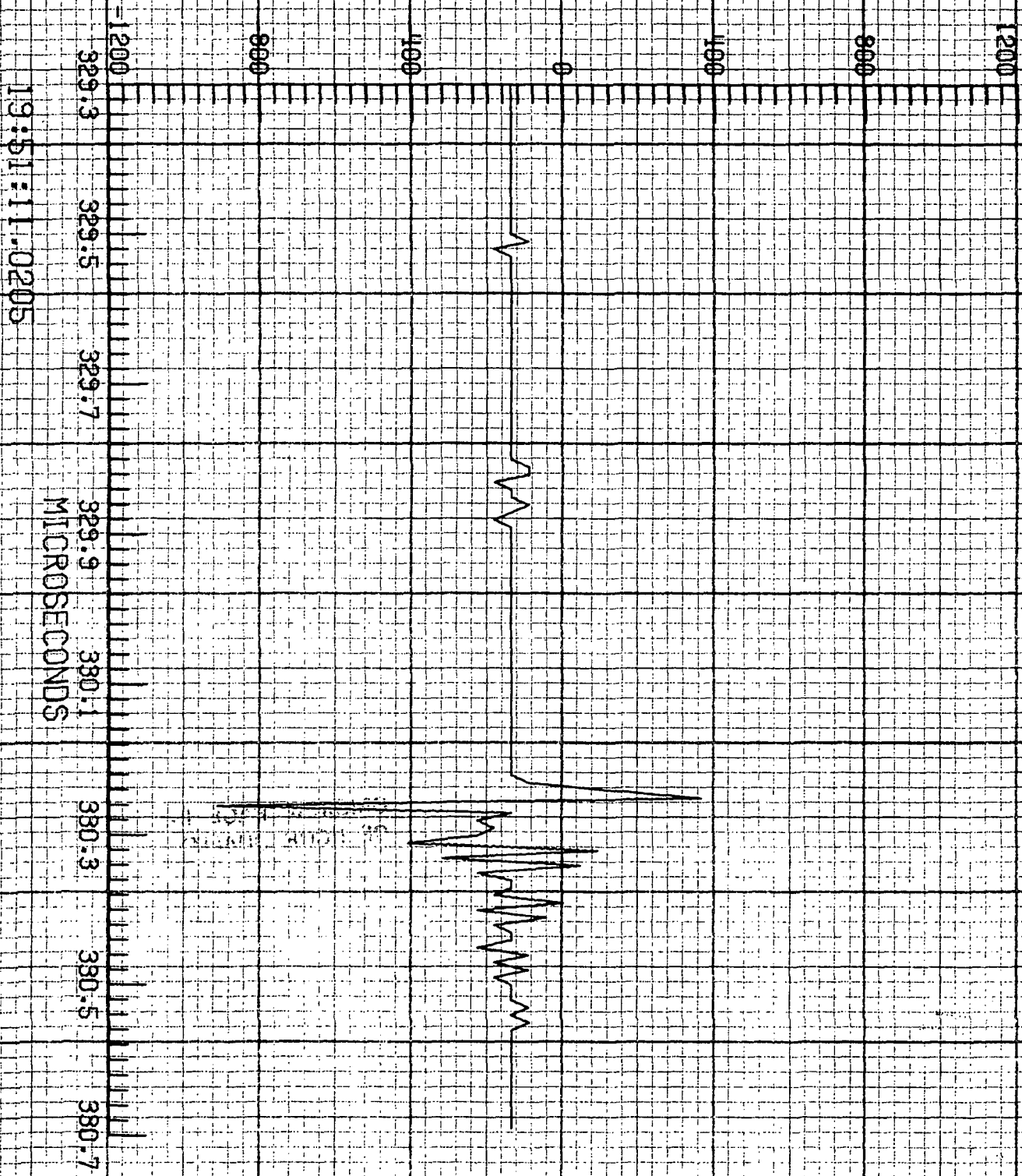
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TEST NO. 83-036

RUN NO. 15

N-010

B DOT 1 T/S



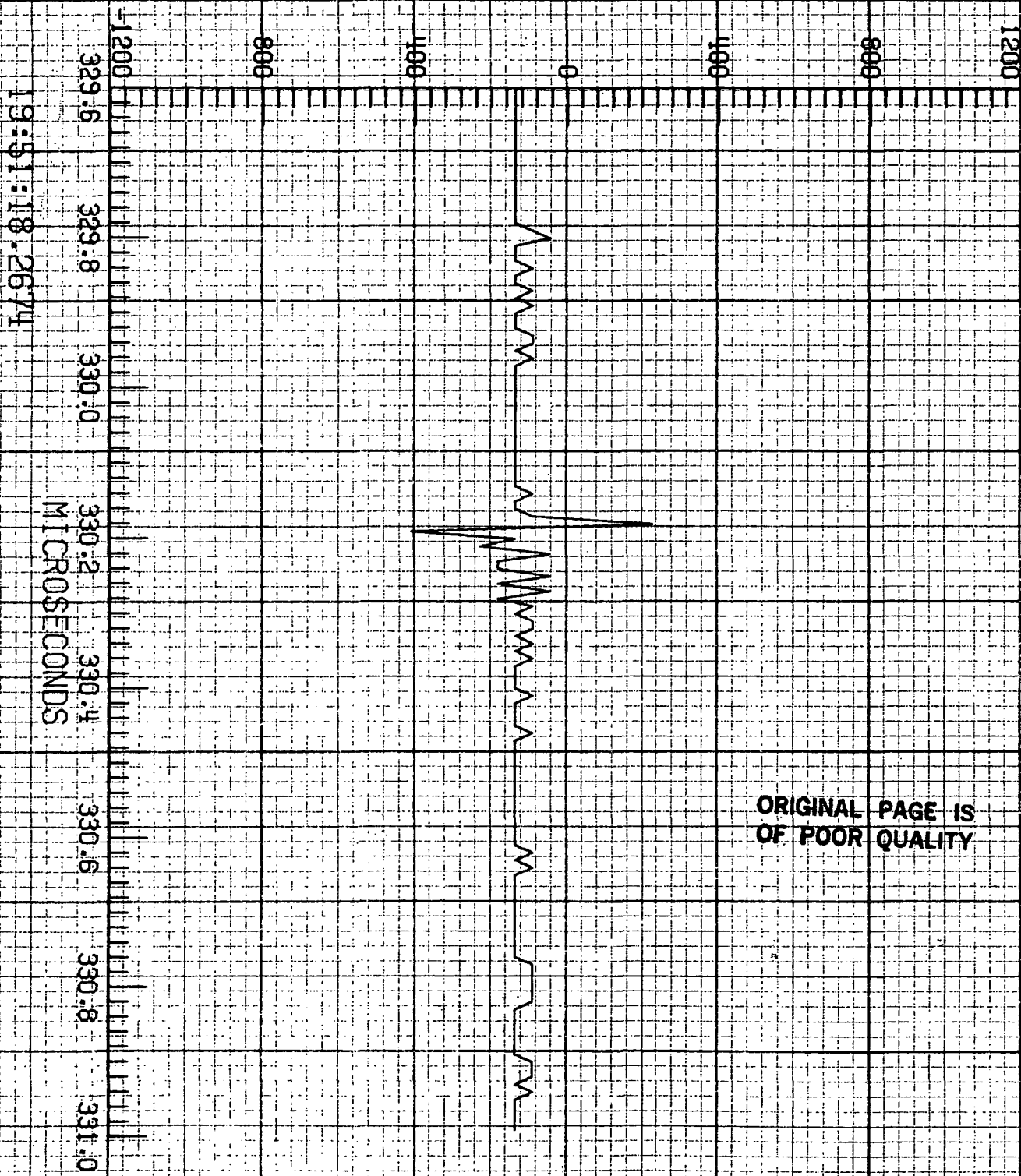
F106 LIGHTNING/TK 10/M. THOMAS

TEST NO. 83-036

RUN NO. 16

N-011

B DOT L T/S



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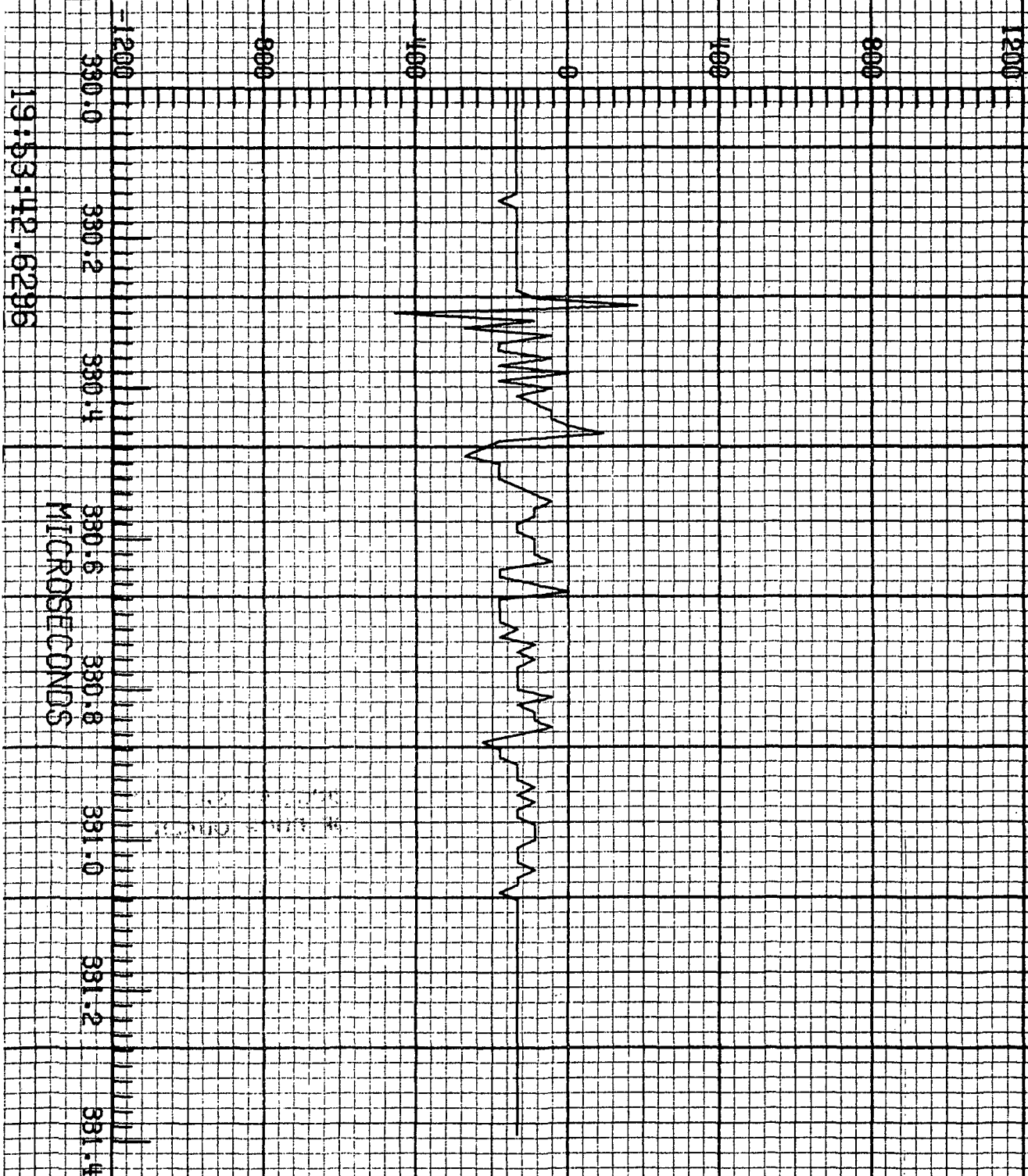
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TEST NO. 83-036

RUN NO. 17

N-012

B DOT II T/S



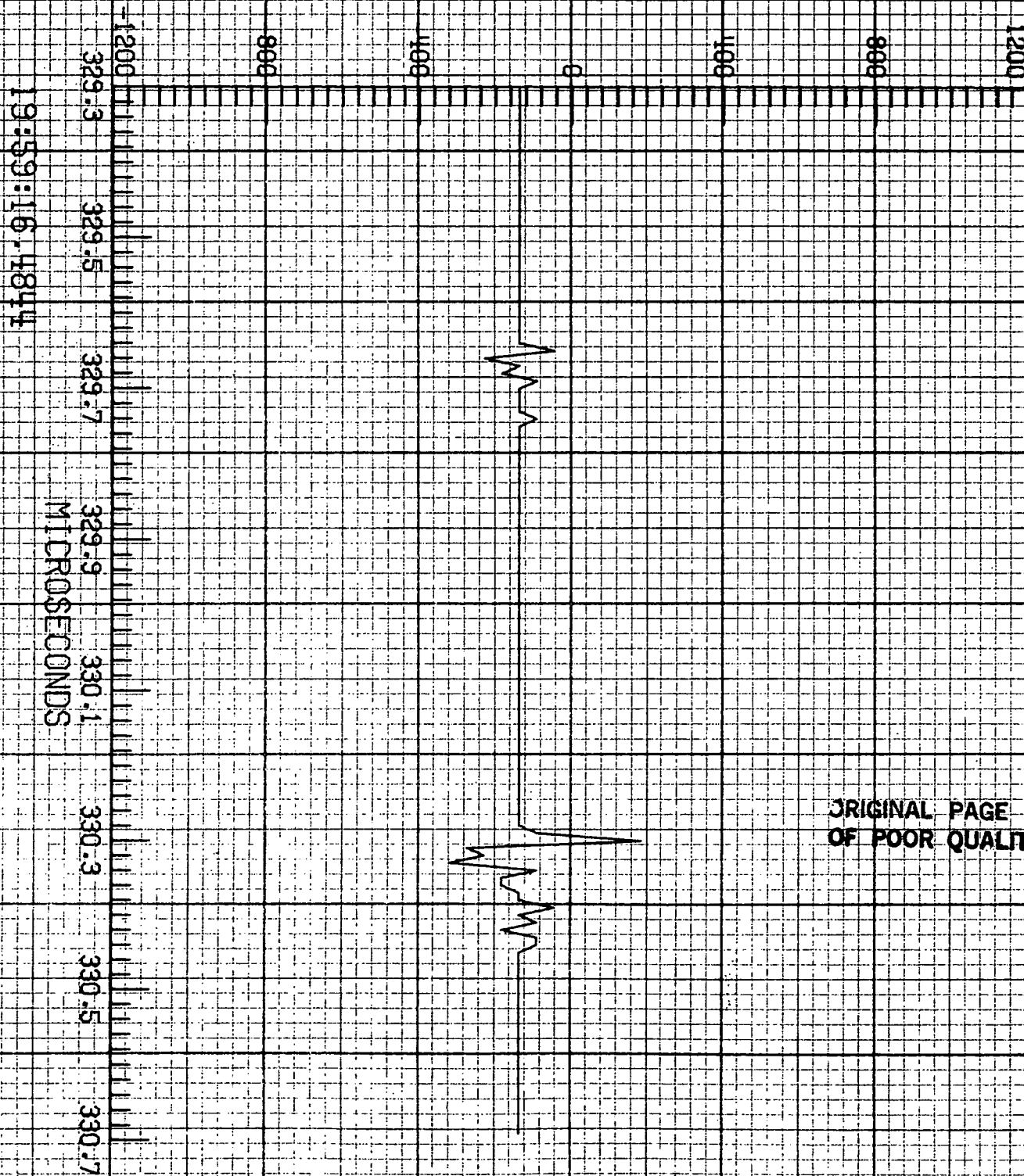
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TEST NO. 83-036

RUN NO. 18

N-013

B DOT L I/S



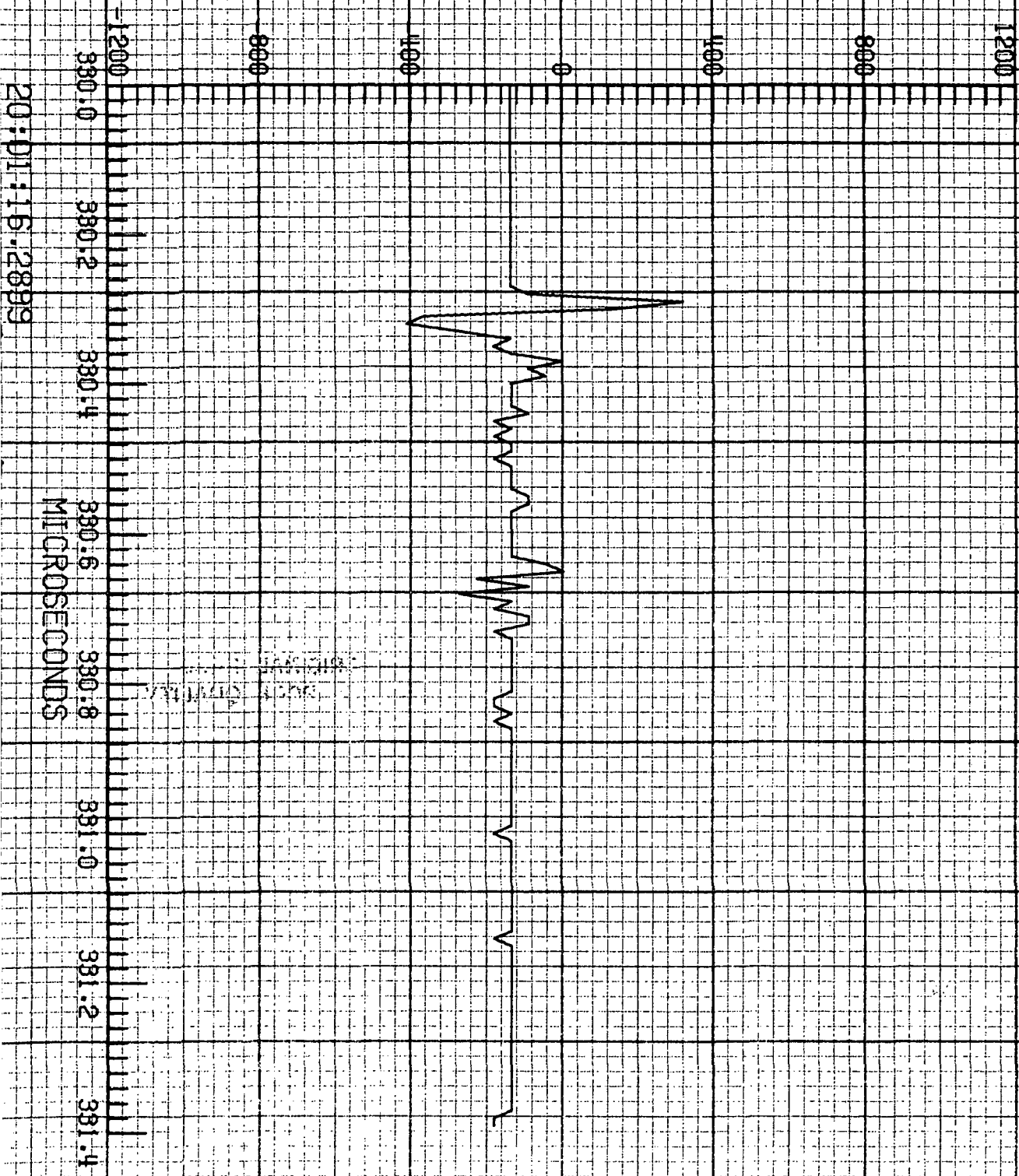
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F106 LIGHTNING/TK 10/M.THOMAS
RUN NO. 19 N-014

TEST NO. 83-036

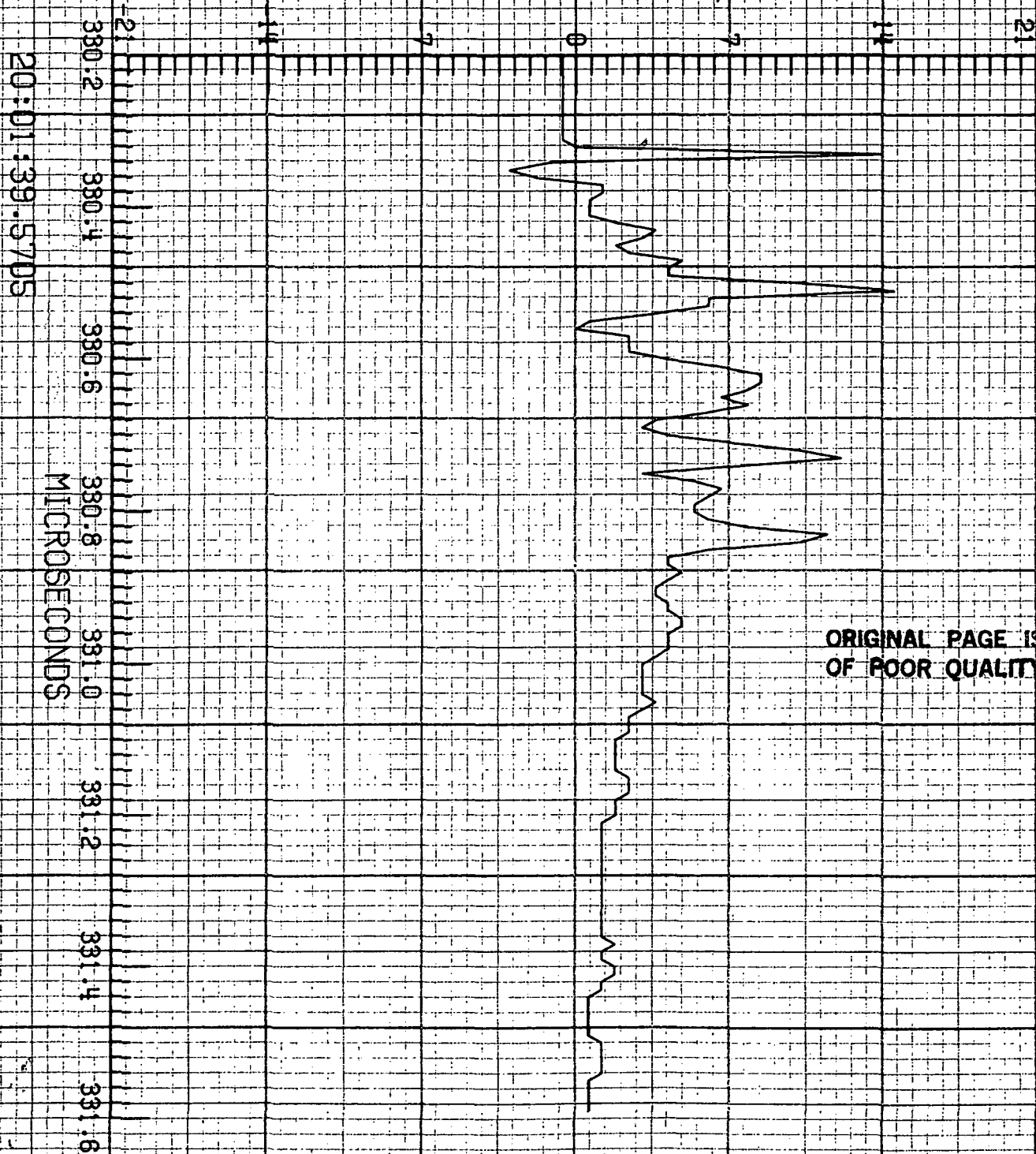
B DOT I I/S



F106 LIGHTNING/TK 8/M.THOMAS
RUN NO. 20 S-010

TEST NO. 83-036

D DOT FWD A/m^2



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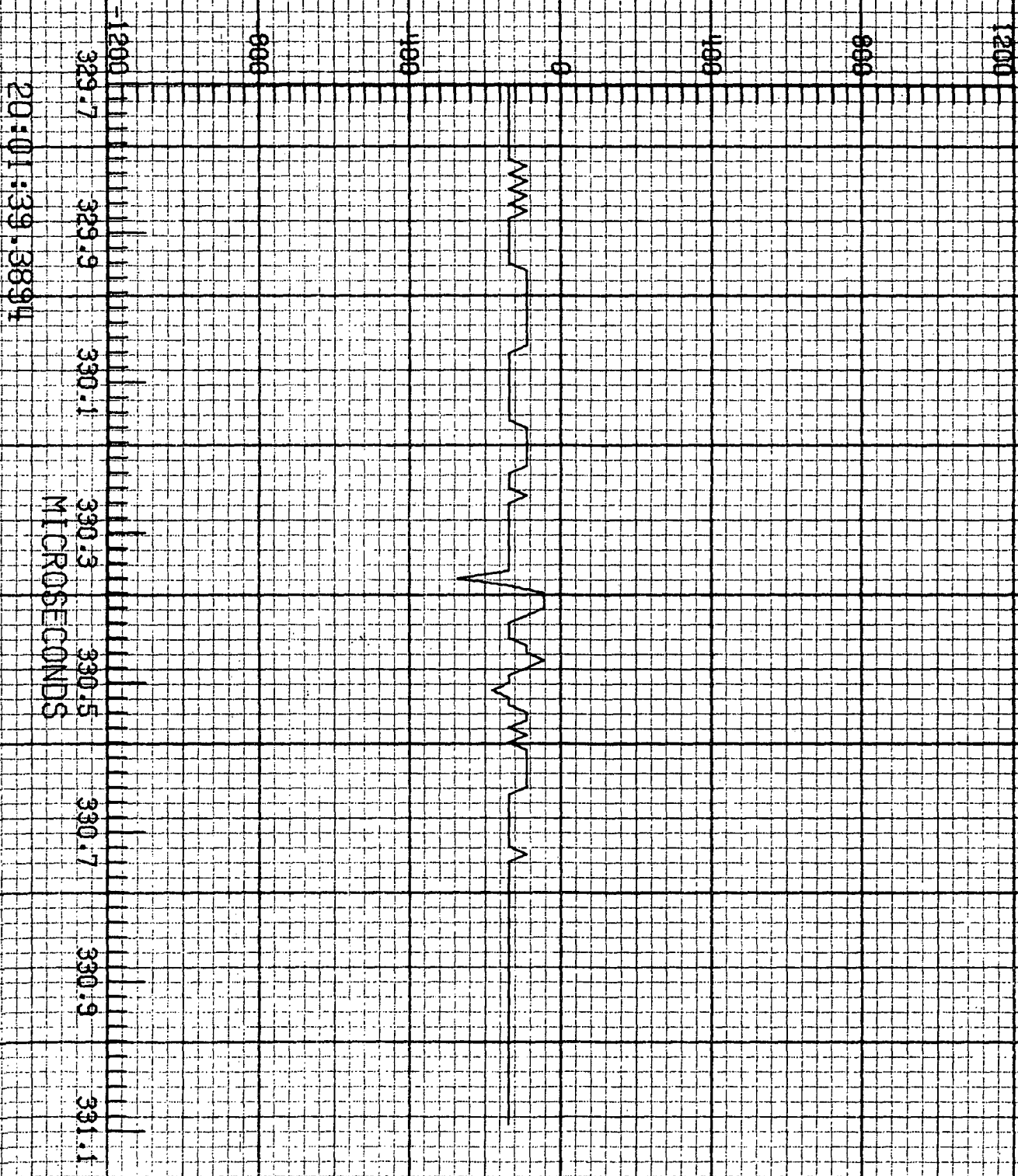
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TEST NO. 83-036

RUN NO. 20

S-010

B DOT L T/S



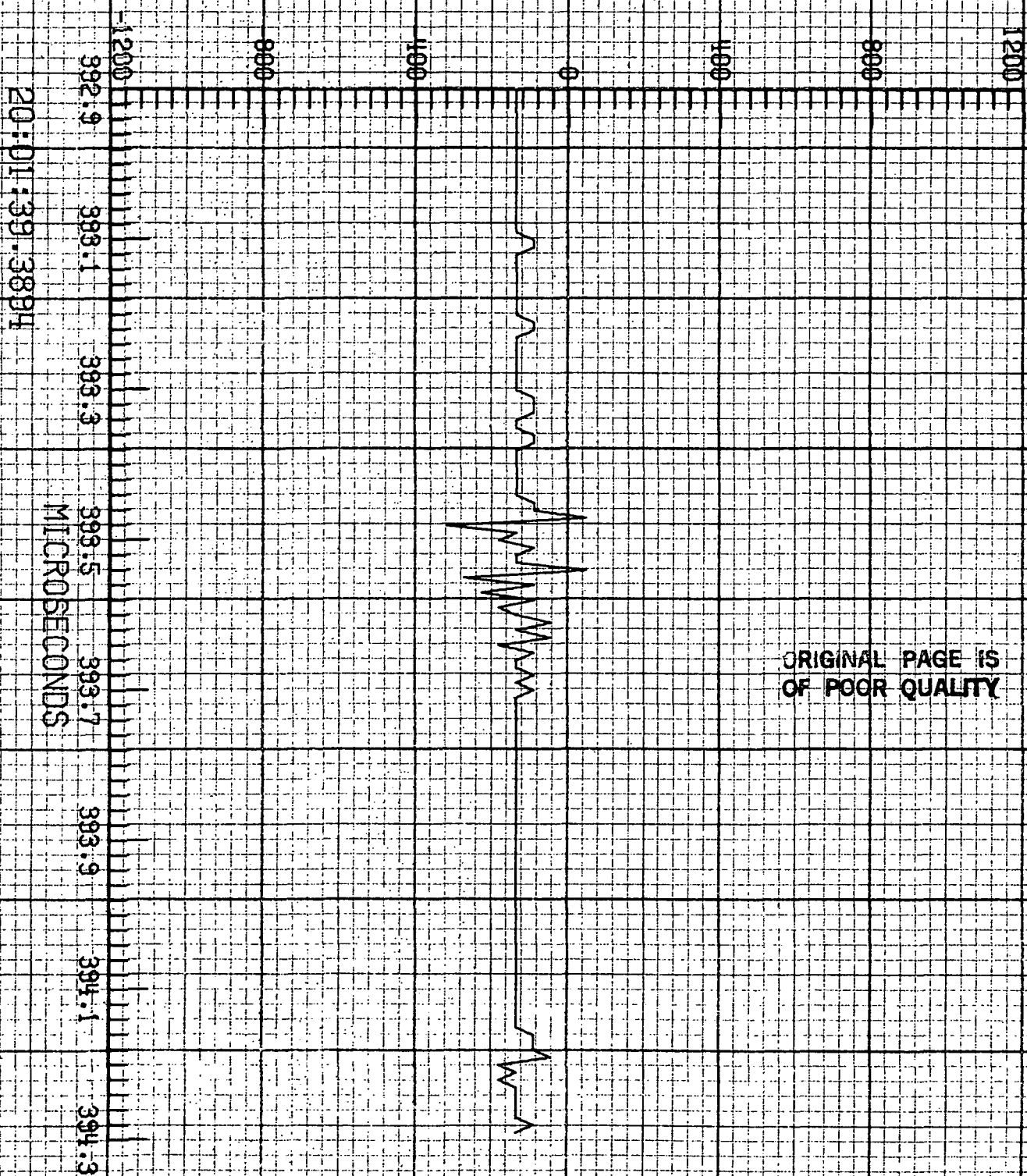
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TEST NO. 83-036

RUN NO. 20

S-010

B DOT L T/S



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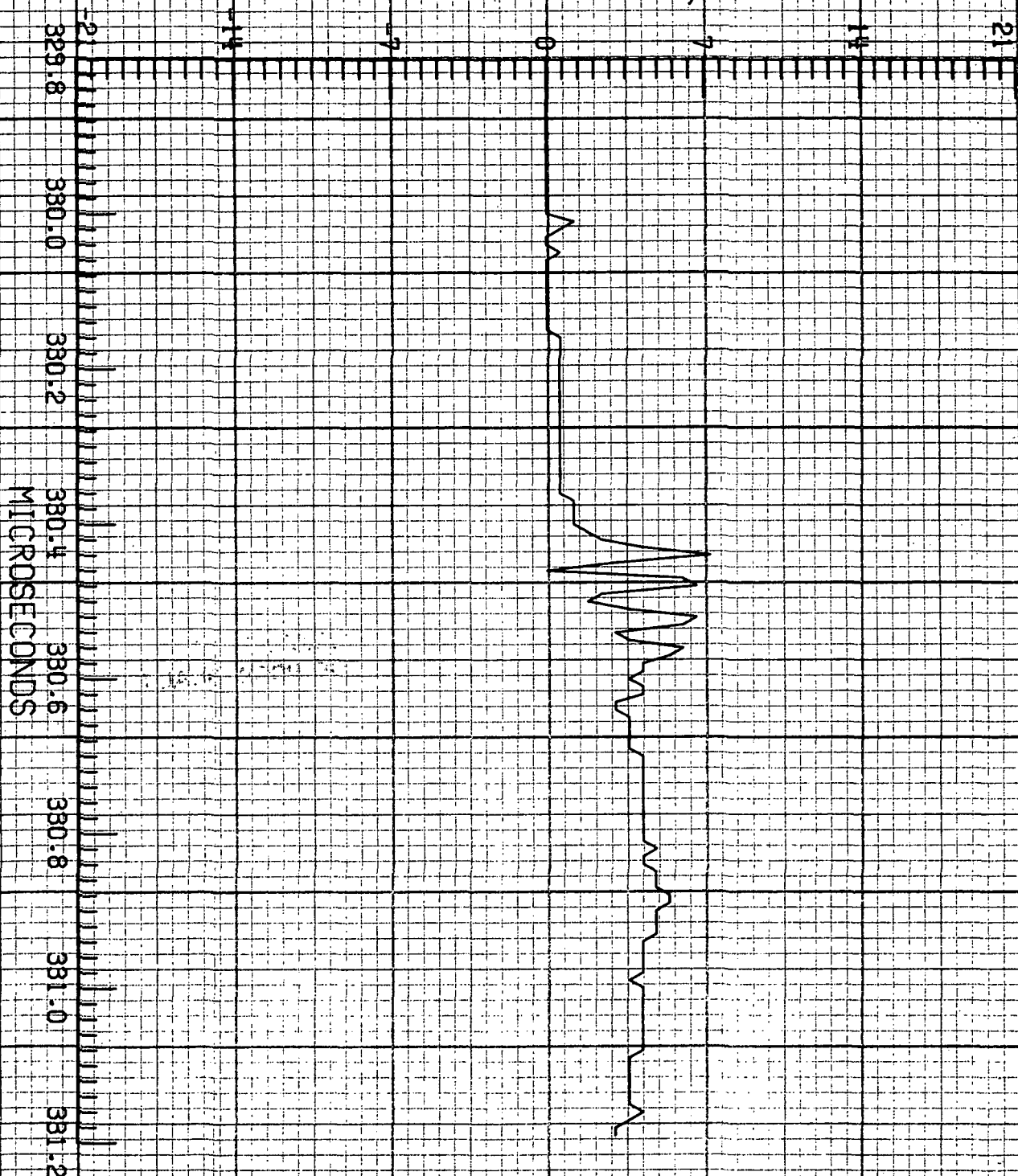
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RUN NO. 21 S-011

TEST NO. 83-036

D DOT FWD A/m^2

20:01:45.3096



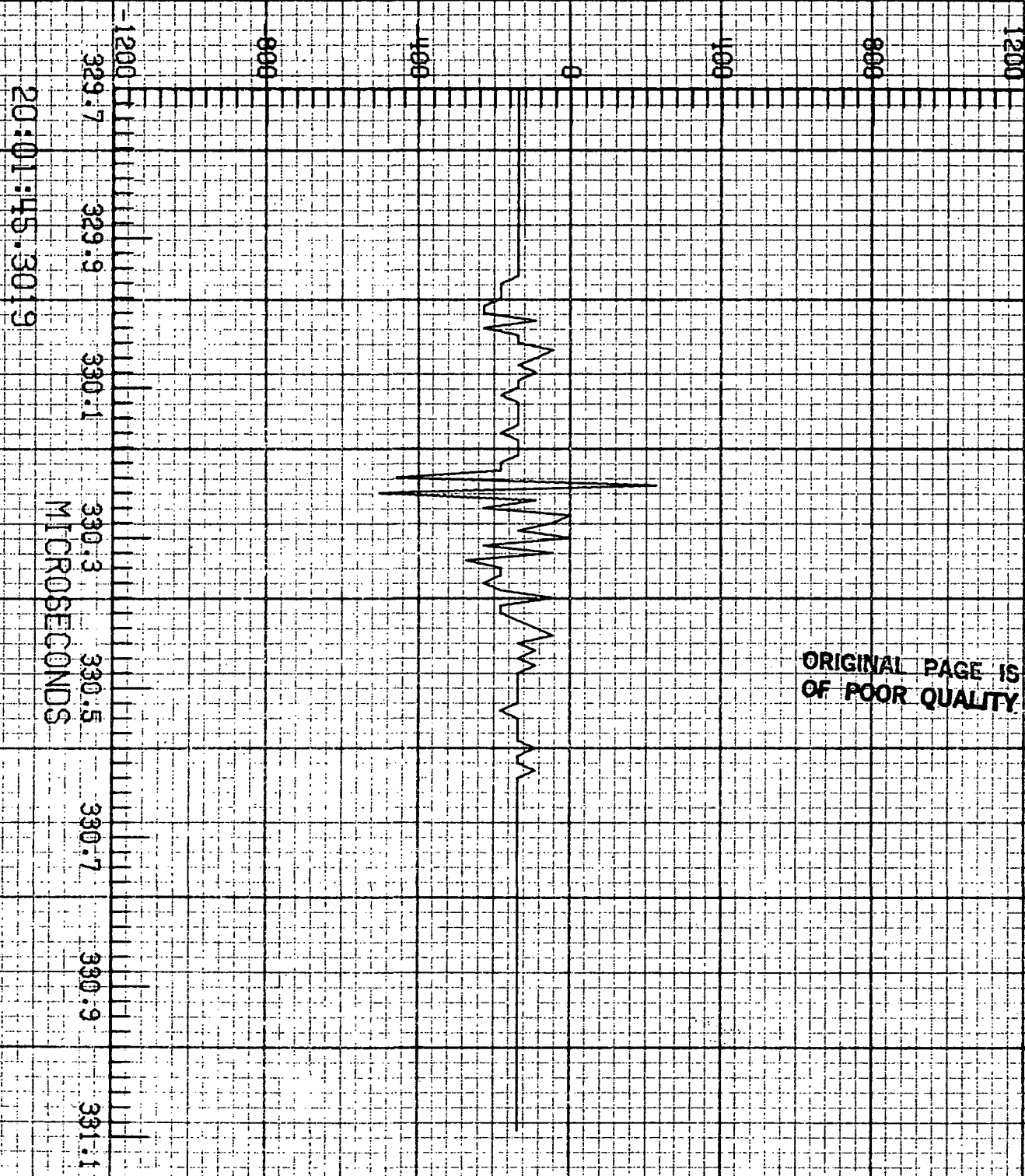
F106 LIGHTNING/TK 10/M. THOMAS

TEST NO. 83-036

RUN NO. 21

S-011

B DOT L T/S



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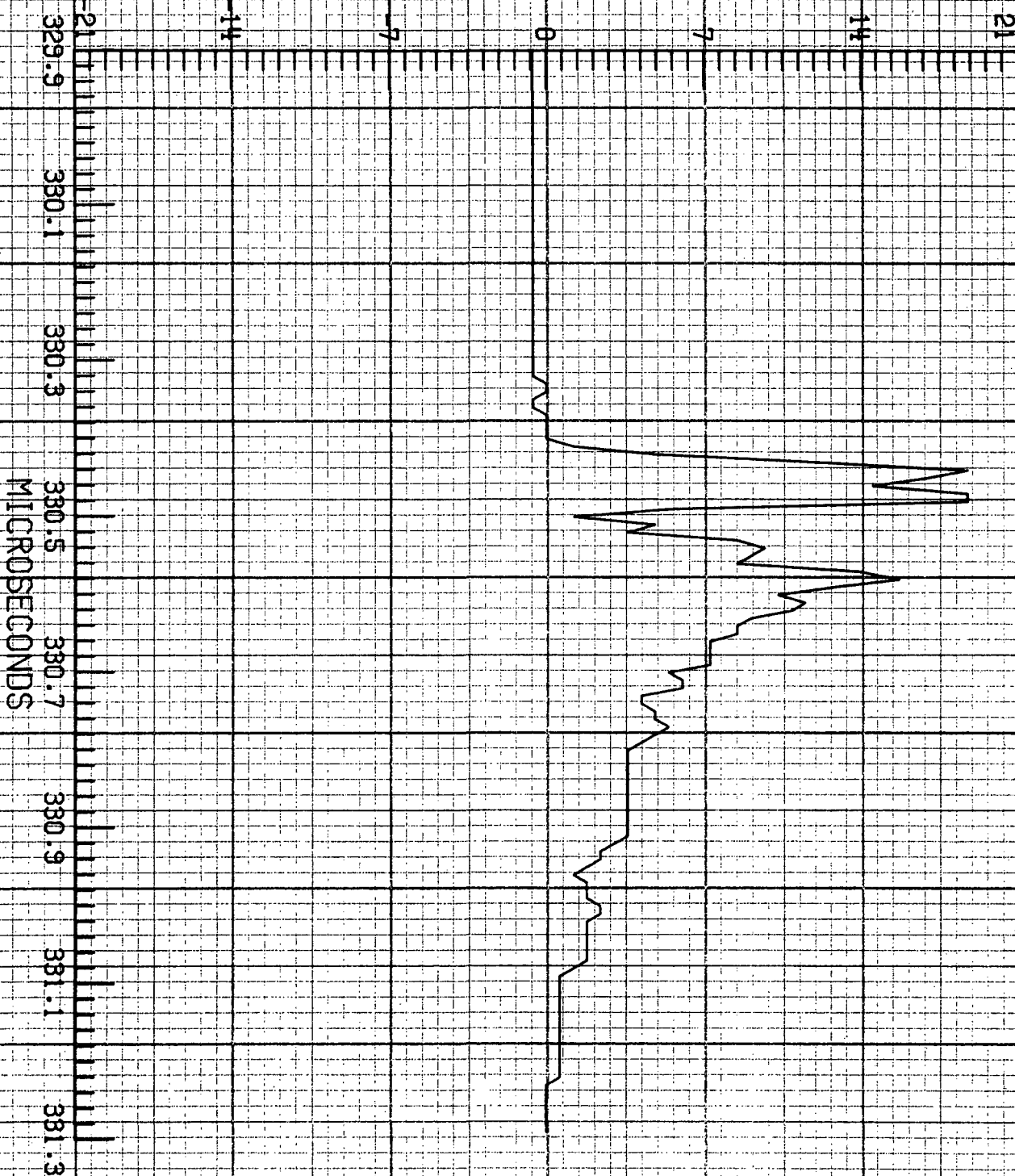
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F106 LIGHTNING/TK 8/M.THOMAS
RUN NO. 22 S-012

TEST NO. 83-036

D DOT FWD A/m^2

20:02:07.8603



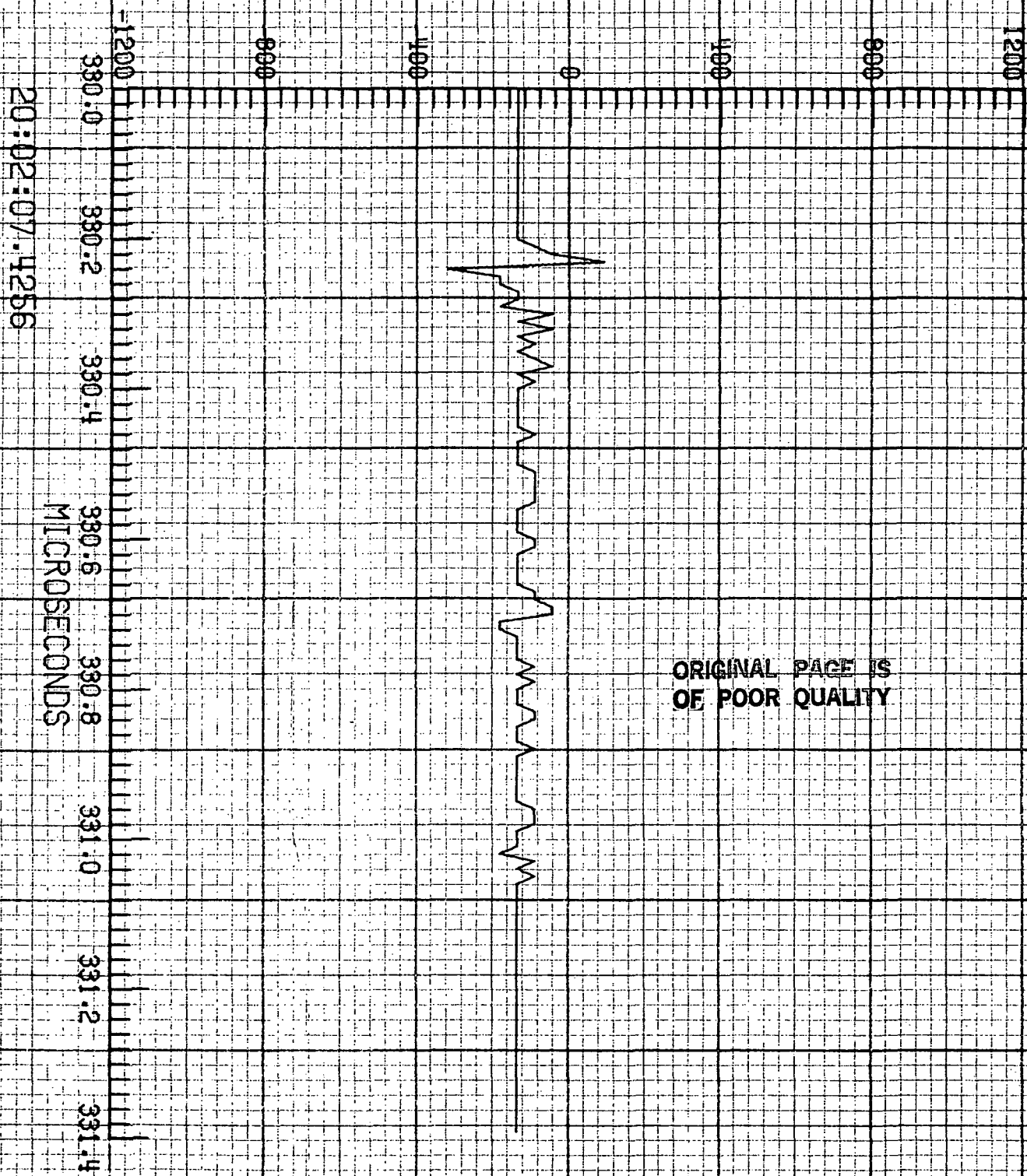
F106 LIGHTNING/TK 10/M.THOMAS

TEST NO. 83-036

RUN NO. 22

S-012

B DOT I T/S



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1. Report No. NASA TM-86426, Part 2		2. Government Accession No.		3. Recipient's Catalog No.	
4. Title and Subtitle 1983 Direct Strike Lightning Data				5. Report Date August 1985	
				6. Performing Organization Code 505-45-13-02	
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16. Abstract Data waveforms are presented which were obtained during the 1983 direct-strike lightning tests utilizing the NASA F106-B aircraft specially instrumented for lightning electromagnetic measurements. The aircraft was operated in the vicinity of the NASA Langley Research Center, Hampton, Virginia, in a thunderstorm environment to elicit strikes. Electromagnetic field data and conduction currents on the aircraft were recorded for attached lightning.					
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